

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 04:34:02 ; Search time 1019.42 Seconds

(without alignments)
 1025.112 Million cell updates/sec

Title: US-09-801-371A-2

Perfect score: 43

Sequence: 1 tcacaaactggggccctccaggaa.....actggggctcacagtttga 43

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 22781392 sqqs, 121523238056 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_estchum:*

3: em_estcin:*

4: em_estcov:*

5: em_estcvy:*

6: em_espl:*

7: em_estco:*

8: em_htc:*

9: Sb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vri:*

21: em_gss_fan:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vri:*

28: gb_gssT:*

29: gb_gss2:*

RESULT 1

T29839 Locus T29839 Definition EST97164 Human Testis Homo sapiens cDNA 5' end similar to tumor necrosis factor, alpha (HT-1190), mRNA sequence.

Accession T29839 Version T29839.1

Keywords EST

Source Homo sapiens (human)

Organism

Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

Authors Adams M.D., Keravage A.R., Pleischmann R.D., Fuldner R.A., Built C.J., Lee N., Kirkness E.F., Weinstock K.G., Gocayne J.D., White O., Sutton G., Blake J.A., Brandon R.C., Chiu M.W., Clayton R.A., Cline R.T., Cotton M.D., Barile-Hughes J.L., Fine L.D., Fitzgerald L.M., FitzHugh W.M., Fritchman J.L., Geoghegan N.S.M., Glodek A., Grehm C.L., Hanna M.C., Hedblom E., Hinkley P.S., Kelley J.M., Kimek K.M., Kelley J.C., Liu L.-J., Marmaros S.M., Merrick J.M., Moreno-Palauques R.F., McDonald L.A., Nguyen D.T., Pellegrino S.M., Phillips C.A., Ryder S.E., Scott J.L., Sauled D.M., Shirley R., Small K.V., Spriggs T.A., Utterback T.R., Weidman J.F., Li Y., Bednarek D.P., Cao L., Cepeda M., Coley T.A., Collins B.J., Dunke D., Feng P., Ferrie A., Fischer C., Hastings G.A., He W.W., Hu J.-S., Greene J.M., Gruber J., Hudson P., Kim A., Kozak D.L., Kunsch C., Ji H., Li H., Olsen H., Meissner P.S., Raymond L., Wei

SUMMARIES

% Query No. Score Match Length DB ID

No.	Score	Match	Length	DB	ID
1	43	100.0	248	14	T29839
2	43	100.0	474	13	BX118951
C 3	43	100.0	630	14	CE528492
C 4	43	100.0	645	14	CP370363

Description

T29839	EST97164	Human Testis	Homo sapiens	cDNA 5'
				mRNA
				linear
				EST

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the core of the result being printed, and is derived by analysis of the total score distribution.

REFERENCES

Y.-F., Wing,J., Xu,C., Yu,G.-L., Ruben,S.M., Dillon,P.J., Fannon,
 M.R., Rosen,C.A., Hasseltine,W.A., Fields,C., Fraser,C.M. and
 Venter,J.C.
 Initial Assessment of Human Gene Diversity and Expression Patterns
 Based Upon 83 Million Basepairs of cDNA Sequence
 Nature 377, 3-174 (1995)
 962626280
 FORMED
 Contact: Venter, JC
 The Institute for Genomic Research
 932 Clifton Rd, Gaithersburg, MD 20878
 Tel: 3018699056
 Fax: 3018699223
 Email: tdbinfo@tdb.tigr.org
 For clone availability, additional sequence and expression
 information related to this EST, please contact the TIGR Database
 (tdbinfo@tdb.tigr.org)

Seq primer: M13 Reverse.
 Location/Qualifiers
 1..248
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="AIIC (inhost) : 107667"
 /db_xref="taxon:9606"
 /clone Lib="Human Testis"
 /note="Organ: testis"

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAATGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 62 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 104

RESULT 2 BX118951
 DEFINITION BX118951 Soares fetal heart NBH19W Homo sapiens cDNA clone
 IMGP9981124300_ IMAGE:1633595, mRNA sequence.

ACCESSION BX118951
 VERSION BX118951.1
 EST.
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
 Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Benthos; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 474)
 Authors: Heil,O., Henning,S., Neubert,P., Partsch,E., Peters,M.,
 Raedel,U., Schnieder,D. and Korn,B.

TITLE Human Unigeneset - RZPD3
 JOURNAL Unpublished
 COMMENT Contact: Ina Rolfs
 Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
 RZPD; IMGP9981124300.
 RZPLIB; I.M.A.G.E. cDNA Clone Collection;
 Human UniGeneSet - RZPD3 (RZPDLIB No.972)
 http://www.rzpd.de/ClonCards.cgi-bin/showlib.cgi?responsible=972
 Contact: Ina Rolfs
 RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
 Heinbnerweg 6, D-14059 Berlin, Germany
 Tel: +49 30 32639 101
 Fax: +49 30 32639 111
 www.rzpd.de

This clone is available royalty-free from RZPD;
 contact RZPD (clone@rzpd.de) for further information. Seq primer:
 M13r, Primer sequence: TTTCACAGGAAACAGCTATGAC.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 69 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 3 CB528492/c
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 70 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 4 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
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 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 71 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 5 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 72 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 6 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
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 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 73 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 7 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
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 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 74 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 8 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 75 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 9 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
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 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
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 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
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Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 76 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 10 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
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 Db 77 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 11 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uio.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 78 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 12 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps_r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunningake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
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 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

FEATURES source
 BASE COUNT ORIGIN
 Query Match 100.0%; Score 43; DB 13; Length 474;
 Best Local Similarity 100.0%; Pred. No. 0 00011; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 43
 Db 79 TCAAACTGGCCCTCAGAACCTACTGGGCCATACAGCTTGA 111

RESULT 13 CB528492
 LOCUS CB528492
 DEFINITION UI-H-PT2-bjd-e-20-0-UI s1 NCI CGAP PT2 Homo sapiens cDNA clone
 UI-H-PT2-bjd-e-20-0-UI 3' mRNA sequence.

ACCESSION CB528492
 VERSION CB528492.1
 KEYWORDS EST.
 SOURCE Homo sapiens (Human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 630)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicabap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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 COMMENT Contact: Robert Strausberg, Ph.D.
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 The following repetitive elements were found in this cDNA
 sequence: 1-22, >AT-rich<Low complexity (matched complement)
 sequence: 205-779, >(ATA)n#Timp-like repeat
 Seq primer: M13 FORWARD _ repeat
 POLYA:Yes.

modified polylinker; Site 1: Ecor I; Site 2: Not I; NCI CGAP PT1 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was subtracted according to Ronaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG LIB=UI-H-PT1

TAG ISSUE=Human Lung Aveolar Macrophage

TAG SEQ=GGCATGCCG"

BASE COUNT 180 a 137 c 139 g 174 t

ORIGIN

Query Match Score 43; DB 14; Length 630;

Best Local Similarity 100.0%; Pred. No. 0 0.0001;

Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCTCGAAGACTACTGGGCCCTACAGCTTGA 43

Db 499 TCAAACCTGGGCCTCCAGAACTACTGGGCCCTACAGCTTGA 457

RESULT 4

LOCUS CD370363 645 bp mRNA linear EST 29-MAY-2003

DEFINITION UI-H-PT1-bkb-n-03-0-UI 81 NCI CGAP PT1 Homo sapiens cDNA clone

ACCESSION CD370363

VERSION EST.

KEYWORDS Homo sapiens (human)

ORGANISM Homo sapiens

Bukiyata; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgab@r@mail.nih.gov

Tissue Procurement: Dr. Gary W. Hunninghake, U of I

cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

cDNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Clone distribution information can be obtained

from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA

Sequence: 297-371, >(TAA)n#Simple_repeat

Seq primer: M13 FORWARD

POLY=A=Yes.

LOCATIONS/Qualifiers

1. .684

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/tissue_type="Adult"

/lab_host="DHIOB (Life Technologies)"

/clone_lib="NCTI CGAP PT1"

/note="Organ: Lung; Vector: pT7T3 Pac (Pharmacia) with a

modified polylinker; Site 1: Ecor I; Site 2: Not I;

NCI CGAP PT1 is a normalized cDNA library constructed from

a pool of 81 RNA samples from Alveolar Macrophages

challenged with different treatments. The library was

normalized according to Bonaldo, Lennon and Soares, Genome

Research, 6:791-806, 1996. First strand cDNA synthesis was

primed with an oligo-dT primer containing a Not I site.

Double stranded cDNA was ligated to an EcoR I adaptor,

digested with Not I, and cloned directionally into

pT7T3-Pac vector. The oligonucleotide used to prime the

synthesis of first-strand cDNA contains a library tag

sequence that is located between the Not I site and the

(dT)18 tail. The sequence tag for this library is

GCCATGCCG. The tissue was provided by Dr. Gary W.

sequence that is located between the Not I site and the

(dT)18 tail. The sequence tag for this library is GGCATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG LIB=UI-H-FT1

TAG ISSUE=Human Lung Aveolar Macrophage

TAG SEQ=GGCCATGCCG"

BASE COUNT 191 a 145 c 144 g 165 t

ORIGIN

Query Match Score 43; DB 14; Length 645;

Best Local Similarity 100.0%; Pred. No. 0 0.0001;

Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCTCGAAGACTACTGGGCCCTACAGCTTGA 43

Db 588 TCAAACCTGGGCCTCCAGAACTACTGGGCCCTACAGCTTGA 546

RESULT 5

LOCUS CA307429/c

DEFINITION CA307429

ACCESSION CA307429.1

VERSION EST.

KEYWORDS Homo sapiens (human)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgab@r@mail.nih.gov

Tissue Procurement: Dr. Gary W. Hunninghake, U of I

cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

cDNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Clone distribution information can be obtained

from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA

Sequence: 297-371, >(TAA)n#Simple_repeat

Seq primer: M13 FORWARD

POLY=A=Yes.

LOCATIONS/Qualifiers

1. .684

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/tissue_type="Adult"

/lab_host="DHIOB (Life Technologies)"

/clone_lib="NCTI CGAP PT1"

/note="Organ: Lung; Vector: pT7T3 Pac (Pharmacia) with a

modified polylinker; Site 1: Ecor I; Site 2: Not I;

NCI CGAP PT1 is a normalized cDNA library constructed from

a pool of 81 RNA samples from Alveolar Macrophages

challenged with different treatments. The library was

normalized according to Bonaldo, Lennon and Soares, Genome

Research, 6:791-806, 1996. First strand cDNA synthesis was

primed with an oligo-dT primer containing a Not I site.

Double stranded cDNA was ligated to an EcoR I adaptor,

digested with Not I, and cloned directionally into

pT7T3-Pac vector. The oligonucleotide used to prime the

synthesis of first-strand cDNA contains a library tag

sequence that is located between the Not I site and the

(dT)18 tail. The sequence tag for this library is

GCCATGCCG. The tissue was provided by Dr. Gary W.

Query Match Score 43; DB 14; Length 645;

Best Local Similarity 100.0%; Pred. No. 0 0.0001;

Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACCTGGGCCTCGAAGACTACTGGGCCCTACAGCTTGA 43

Db 588 TCAAACCTGGGCCTCCAGAACTACTGGGCCCTACAGCTTGA 546

RESULT 6

LOCUS CA307429/c

DEFINITION CA307429

ACCESSION CA307429.1

VERSION EST.

KEYWORDS Homo sapiens (human)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgab@r@mail.nih.gov

Tissue Procurement: Dr. Gary W. Hunninghake, U of I

cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

cDNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Clone distribution information can be obtained

from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA

Sequence: 297-371, >(TAA)n#Simple_repeat

Seq primer: M13 FORWARD

POLY=A=Yes.

LOCATIONS/Qualifiers

1. .684

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/tissue_type="Adult"

/lab_host="DHIOB (Life Technologies)"

/clone_lib="NCTI CGAP PT1"

/note="Organ: Lung; Vector: pT7T3 Pac (Pharmacia) with a

modified polylinker; Site 1: Ecor I; Site 2: Not I;

NCI CGAP PT1 is a normalized cDNA library constructed from

a pool of 81 RNA samples from Alveolar Macrophages

challenged with different treatments. The library was

normalized according to Bonaldo, Lennon and Soares, Genome

Research, 6:791-806, 1996. First strand cDNA synthesis was

primed with an oligo-dT primer containing a Not I site.

Double stranded cDNA was ligated to an EcoR I adaptor,

digested with Not I, and cloned directionally into

pT7T3-Pac vector. The oligonucleotide used to prime the

synthesis of first-strand cDNA contains a library tag

sequence that is located between the Not I site and the

(dT)18 tail. The sequence tag for this library is

GCCATGCCG. The tissue was provided by Dr. Gary W.

ACCESSION VERSION SOURCE KEYWORDS ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	UI-H-FT1-bhy-e-14-0-UI 3', tRNA sequence. CA139256 CA308256 1 EST Homo sapiens (human) Homo sapiens Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. Homo sapiens Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Buteleostomi; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 713) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	EST. Homo sapiens (human) Homo sapiens Homo sapiens Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 719) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
UNPUBLISHED TUMOR GENE INDEX CONTACT: Robert Strausberg, Ph.D. EMAIL: csapbs>r@mail.nih.gov	UNPUBLISHED TUMOR GENE INDEX CONTACT: Robert Strausberg, Ph.D. EMAIL: csapbs>r@mail.nih.gov	UNPUBLISHED TUMOR GENE INDEX CONTACT: Robert Strausberg, Ph.D. EMAIL: csapbs>r@mail.nih.gov	UNPUBLISHED TUMOR GENE INDEX CONTACT: Robert Strausberg, Ph.D. EMAIL: csapbs>r@mail.nih.gov
JOURNAL COMMENT	JOURNAL COMMENT	JOURNAL COMMENT	JOURNAL COMMENT
FEATURES SOURCE QUALIFIERS	FEATURES SOURCE QUALIFIERS	FEATURES SOURCE QUALIFIERS	FEATURES SOURCE QUALIFIERS
BASE COUNT ORIGIN	BASE COUNT ORIGIN	BASE COUNT ORIGIN	BASE COUNT ORIGIN
RESULT 12 LOCUS BQ007008/C DEFINITION UI-H-FT1-aab-j-22-0-UI.81 NCI_CGAP_EII Homo sapiens cDNA clone EST 26-MAR-2002 ACCESSION BQ007008 VERSION BQ007008.1 SOURCE Homo sapiens ORGANISM Homo sapiens KEYWORDS Mammalia; Buteleostomi; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 722) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	RESULT 12 LOCUS CB528694/C DEFINITION UI-H-FT2-bjd-1-22-0-UI.81 NCI CGAP_FT2 Homo sapiens cDNA clone EST 16-MAY-2003 ACCESSION CB528694 VERSION CB528694.1 SOURCE Homo sapiens ORGANISM Homo sapiens KEYWORDS Mammalia; Buteleostomi; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 722) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	RESULT 11 LOCUS CB528694 DEFINITION UI-H-FT2-bjd-1-22-0-UI.81 NCI CGAP_FT2 Homo sapiens cDNA clone EST 16-MAY-2003 ACCESSION CB528694 VERSION CB528694.1 SOURCE Homo sapiens ORGANISM Homo sapiens KEYWORDS Mammalia; Buteleostomi; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 722) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	RESULT 11 LOCUS CB528694/C DEFINITION UI-H-FT2-bjd-1-22-0-UI.81 NCI CGAP_EII Homo sapiens cDNA clone EST 26-MAR-2002 ACCESSION BQ007008 VERSION BQ007008.1 SOURCE Homo sapiens ORGANISM Homo sapiens KEYWORDS Mammalia; Buteleostomi; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 722) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
COMMENT	COMMENT	COMMENT	COMMENT

Email: cgapsr@mail.nih.gov
 Tissue Procurement: Dr. Jose Mercuende
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Clone distribution information can be found through the T.M.A.G.E. Consortium/LiNT at: <http://image.llnl.gov>
 The following repetitive elements were found in this cDNA sequence: 297/371, "(AAA)##Simple_repeat
 Seq_Primer: M13 FORWARD
 POLYA=Yes.

FEATURES
 Source
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="IMAGE:15846517"
 /tissue_type="Chondrosarcoma"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lab="NCI CGAP EII"
 /note="Organ: Left Pteryg; Vector: PT773-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP EII is a normalised cDNA library containing the following tissue(s): Chondrosarcoma. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT773-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCATGGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG LIB=U-H-FT1
 TAG TISSUE=Human Lung Aveolar Macrophage
 TAG SEQ=GCCATGGCG"

BASE COUNT
 ORIGIN
 204 a -162 c 164 g 190 t 2 others

Query Match
 Best Local Similarity 100.0%; Score 43; DB 12; Length 722;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCCTCCGAACTACTGGGCCCTACAGCTTGA 43
 Db 591 TCAAACTGGGCCTCCGAACTACTGGGCCCTACAGCTTGA 549

RESULT 13
 CA307062/c
 LOCUS CA307062
 DEFINITION UI-H-FT1-bhu-o-04-0-UI_81 NCI CGAP_F12 Homo sapiens cDNA clone
 ACCESSION CA307062
 VERSION CA307062.1
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NCBI-GAP <http://www.ncbi.nlm.nih.gov/ncicgap/>

REFERENCE Contact: Robert Strausberg, Ph.D.
 AUTHORS Unpublished
 TITLE Tumor Gene Index
 JOURNAL COMMENT

Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu. The following repetitive elements were found in this cDNA sequence: 297/369, >(AAA)n##Simple_repeat
 Seq_Primer: M13 FORWARD
 POLYA=Yes.
 Location/Qualifiers
 1. .722
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone=U-H-FT1-bhu-o-04-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lab="NCI CGAP F11"
 /note="Organ: Lung; Vector: PT773-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP F11 is a normalized cDNA library constructed from a pool of 81 RNA samples from Aveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT773-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCATGGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG LIB=U-H-FT1
 TAG TISSUE=Human Lung Aveolar Macrophage
 TAG SEQ=GCCATGGCG"

BASE COUNT
 ORIGIN
 203 a -165 c 163 g 189 t 2 others

Query Match
 Best Local Similarity 100.0%; Score 43; DB 14; Length 722;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCCTCCGAACTACTGGGCCCTACAGCTTGA 43
 Db 589 TCAAACTGGGCCTCCGAACTACTGGGCCCTACAGCTTGA 547

RESULT 14
 CD364988/c
 LOCUS CD364988
 DEFINITION UI-H-FT2-bjh-c-04-0-UI_81 NCI CGAP_F12 Homo sapiens cDNA clone
 ACCESSION CD364988
 VERSION CD364988.1
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NCBI-GAP <http://www.ncbi.nlm.nih.gov/ncicgap/>

REFERENCE Contact: Robert Strausberg, Ph.D.
 AUTHORS Unpublished
 TITLE Tumor Gene Index
 JOURNAL COMMENT

Clone Distribution: Dr. Gary W. Hunninghake, U of I
 Tissue Procurement: Dr. M. Bento Soares, University of Iowa
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at <http://genome.uiowa.edu/distribution/cgap.html>
 The following repetitive elements were found in this cDNA

sequence: 297-371, >(TAAA)n#Simple_repeat
Seq_primer: M13 FORWARD
POLY_A=Yes.

FEATURES

Source

Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT2-bjn-c-04-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NCI CGAP FT12"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: Ecor I; Site 2: Not I; NCI CGAP FT12 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoRI adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCGATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
TAG_LIB=UI-H-FT1
TAG_TISSUE=Human Lung Aveolar Macrophage
TAG_SEQ=GGCCATGCCG"

BASE COUNT

ORIGIN

Query Match 100.0% Score 43; DB 14; Length 722;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 43; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 TCAAACTGGGCCTCCAGAACCTACCTGGGCCTACAGCTTGA 43
Db 591 TCAAACTGGGCCTCCAGAACCTACCTGGGCCTACAGCTTGA 549

Search completed: February 3, 2004, 06:12:19

Job time : 1022.42 secs

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cspbbsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of Iowa

cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA sequence: 297-371, >(TAAA)n#Simple_repeat
Seq_primer: M13 FORWARD
POLY_A=Yes.

FEATURES

Source

Location/Qualifiers
1..723
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT1-bhy-b-23-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="Adult"

/lab host="DH10B (Life Technologies)"

/clone lib="NCI CGAP FT1"

/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: Ecor I; Site 2: Not I; NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoRI adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCGATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
TAG_LIB=UI-H-FT1
TAG_TISSUE=Human Lung Aveolar Macrophage
TAG_SEQ=GGCCATGCCG"

/dev_time : 164 C 164 G 191 t 1 others

BASE COUNT

ORIGIN

Query Match 100.0% Score 43; DB 14; Length 723;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 43; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 TCAAACTGGGCCTCCAGAACCTACCTGGGCCTACAGCTTGA 43
Db 591 TCAAACTGGGCCTCCAGAACCTACCTGGGCCTACAGCTTGA 549

Search completed: February 3, 2004, 06:12:19

Job time : 1022.42 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 05:14:03 ; Search time 764.932 Seconds

(without alignments); 207.072 Million cell updates/sec

Title: US-09-801-371A-2

Perfect score: 43

Sequence: 1 tcaaaactggggctccagaa.....actggggctacatgttga 43

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters:

4899405

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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Published Applications NA:
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2: /cgn2_6/podata/1/pubpna/pct_new_pub_seq:*
3: /cgn2_6/podata/1/pubpna/us06_new_pub_seq:*
4: /cgn2_6/podata/1/pubpna/us05_pubcomb.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	43	100.0	43	10	US-09-801-371A-2		Sequence 2, App1
c 2	43	100.0	43	10	US-09-801-371A-6		Sequence 6, App1
c 3	43	100.0	50	10	US-09-801-371A-8		Sequence 8, App1
c 4	43	100.0	81	10	US-09-801-371A-7		Sequence 7, App1
c 5	43	100.0	104	10	US-09-801-371A-1		Sequence 1, App1
c 6	43	100.0	104	10	US-09-801-371A-5		Sequence 5, App1
c 7	43	100.0	1279	13	US-10-247-711-10		Sequence 120, App1
8	43	100.0	1643	13	US-10-310-793-9		Sequence 9, App1
9	43	100.0	1643	15	US-10-272-411-4		Sequence 4, App1
10	43	100.0	1643	15	US-10-218-547-3		Sequence 3, App1
11	43	100.0	1643	15	US-10-272-128A-4		Sequence 4, App1
12	43	100.0	1666	13	US-10-247-671-68		Sequence 68, App1
13	43	100.0	3634	11	US-09-932-303-34		Sequence 1, App1
14	43	100.0	3634	11	US-10-191-997-104		Sequence 34, App1
15	43	100.0	3634	13	US-10-191-997-104		Sequence 104, App1

SEQUENCES

RESULT 1	US-09-801-371A-2	Query Match	100.0%	Score 43;	DB 10;	Length 43;
		Best Local Similarity	100.0%	Pred. No. 5.	6e-08;	
		Mismatches	0;	Mismatches	0;	
		Matches	43;	Conservative	0;	Indels 0;
Qy	1 TCAACTGGGCTCCGAACATCGGGCTACAGCTTGA 43					
Db	1 TCAACGGGGCTCCGAACATCGGGCTACAGCTTGA 43					

RESULT 2

US-09-801-371A-2

; Sequence 6, Application US/09801371A

; Patent No. US20020155563A1

; GENERAL INFORMATION:

; TITLE OF INVENTION: MANIPULATION OF mRNA SPLICING AND ITS USES

; FILE REFERENCE: AI4084-PCT-USA-A 06631.0147

; CURRENT APPLICATION NUMBER: US-09-801-371A

; CURRENT FILING DATE: 2001-03-07

; PRIOR APPLICATION NUMBER: PCT WO 00/14255

; PRIOR FILING DATE: 1999-09-06

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: FASTSEQ for Windows Version 4.0

; SEQ ID NO 2

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-801-371A-2

APPLICANT: Kaempfer, Raymond
 APPLICANT: Jarrous, Navef
 APPLICANT: Ben-Aousli, Yitzhak
 TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 NUMBER OF SEQ ID NOS: 12
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147
 CURRENT APPLICATION NUMBER: US/09/801-371A
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: PCT WO 00/14255
 PRIOR FILING DATE: 1999-09-06
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 6
 LENGTH: 43
 TYPE: DNA
 ORGANISM: Homo sapien
 US-09-801-371A-6

Query Match Similarity 100.0%; Score 43; DB 10; Length 43;
 Best Local Similarity 100.0%; Pred. No. 5.6e-08; Indels 0; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
 US-09-801-371A-8
 Sequence 8, Application US/09801371A
 Patent No. US20020155569A1
 GENERAL INFORMATION:
 APPLICANT: Kaempfer, Raymond
 APPLICANT: Osman, Farhat
 APPLICANT: Jarrous, Navef
 APPLICANT: Ben-Aousli, Yitzhak
 TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147
 CURRENT APPLICATION NUMBER: US/09/801-371A
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: PCT WO 00/14255
 PRIOR FILING DATE: 1999-09-06
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 8
 LENGTH: 50
 TYPE: RNA
 ORGANISM: Homo sapien
 US-09-801-371A-8

Query Match Similarity 100.0%; Score 43; DB 10; Length 50;
 Best Local Similarity 79.1%; Pred. No. 5.6e-08; Indels 0; Gaps 0;
 Matches 34; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

RESULT 4
 US-09-801-371A-7
 Sequence 7, Application US/09801371A
 Patent No. US20020155569A1
 GENERAL INFORMATION:
 APPLICANT: Kaempfer, Raymond
 APPLICANT: Osman, Farhat
 APPLICANT: Jarrous, Navef
 APPLICANT: Ben-Aousli, Yitzhak
 TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147
 CURRENT APPLICATION NUMBER: US/09/801-371A
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: PCT WO 00/14255
 PRIOR FILING DATE: 1999-09-06
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 5

Query Match Similarity 100.0%; Score 43; DB 10; Length 81;
 Best Local Similarity 79.1%; Pred. No. 5.6e-08; Indels 0; Gaps 0;
 Matches 34; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

RESULT 5
 US-09-801-371A-1
 Sequence 1, Application US/09801371A
 Patent No. US20020155569A1
 GENERAL INFORMATION:
 APPLICANT: Kaempfer, Raymond
 APPLICANT: Osman, Farhat
 APPLICANT: Jarrous, Navef
 APPLICANT: Ben-Aousli, Yitzhak
 TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147
 CURRENT APPLICATION NUMBER: US/09/801-371A
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: PCT WO 00/14255
 PRIOR FILING DATE: 1999-09-06
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 1

Query Match Similarity 100.0%; Score 43; DB 10; Length 104;
 Best Local Similarity 100.0%; Pred. No. 5.6e-08; Indels 0; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 6
 US-09-801-371A-5/C
 Sequence 5, Application US/09801371A
 Patent No. US20020155569A1
 GENERAL INFORMATION:
 APPLICANT: Kaempfer, Raymond
 APPLICANT: Osman, Farhat
 APPLICANT: Jarrous, Navef
 APPLICANT: Ben-Aousli, Yitzhak
 TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147
 CURRENT APPLICATION NUMBER: US/09/801-371A
 CURRENT FILING DATE: 2001-03-07
 PRIOR APPLICATION NUMBER: PCT WO 00/14255
 PRIOR FILING DATE: 1999-09-06
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 4.0
 FILE REFERENCE: A34084-PCT-USA-A 066031.0147

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/ LENGTH: 104
/ TYPE: DNA
/ ORGANISM: Homo sapien
JS-09-801-371A-5

Query Match Score 43; DB 10; Length 104;
Best Local Similarity 100.0%; Pred. No. 5 6e-08; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; DB 104

    1 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 43
    100 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 58
    100 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 58

RESULTS 7
/ Sequence 120, Application US/10247671
/ Publication No. US20030109472A1
GENERAL INFORMATION:
/ APPLICANT: Mikita, Thomas
/ APPLICANT: Shiffman, Dov
/ APPLICANT: Porter, Matthew R.
/ APPLICANT: Kaser, Matthew R.
TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS
FILE REFERENCE: PA-0050 US
CURRENT APPLICATION NUMBER: US/10/247,671
CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/323,784
PRIOR FILING DATE: 2001-09-19
NUMBER OF SEQ ID NOS: 186
SOFTWARE: PERL Program
OTHER INFORMATION: Incyte ID No. US20030194721A1 561301CB1
US-10-247-671-120
/ LENGTH: 1279
/ TYPE: DNA
/ ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. US20030194721A1 561301CB1

Query Match Score 43; DB 13; Length 1279;
Best Local Similarity 100.0%; Pred. No. 5.7e-08; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; DB 1279

    1 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 43
    1081 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 1123
    1081 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 1123

RESULTS 8
/ Sequence 9, Application US/10310793
/ Publication No. US20030198640A1
GENERAL INFORMATION:
/ APPLICANT: Yu, Guo-Liang
/ APPLICANT: Ni, Jian
/ APPLICANT: Rosen, Craig A
/ APPLICANT: Zhang, Jun
/ APPLICANT: Wei, Ping
TITLE OF INVENTION: Methods And Compositions For Treating Inflammatory Bowel Diseases
FILE REFERENCE: PFS3
CURRENT APPLICATION NUMBER: US/10/310,793
CURRENT FILING DATE: 2002-12-06
PRIOR APPLICATION NUMBER: 60/336,695
PRIOR FILING DATE: 2001-12-07
PRIOR APPLICATION NUMBER: 10/226,294
PRIOR FILING DATE: 2002-08-23
PRIOR APPLICATION NUMBER: 60/314,381
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 09/899,059
PRIOR FILING DATE: 2001-07-06
PRIOR APPLICATION NUMBER: 60/278,449
PRIOR FILING DATE: 2001-03-26

Remaining Prior Application data removed - See File Wrapper or PALM.

/ NUMBER OF SEQ ID NOS: 71
/ SOFTWARE: PatentIN version 3.1
SEQ ID NO: 9
/ LENGTH: 1643
/ TYPE: DNA
/ ORGANISM: human
US-10-310-793-9

Query Match Score 43; DB 13; Length 1643;
Best Local Similarity 100.0%; Pred. No. 5.7e-08; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; DB 1643

    1 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 43
    1074 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 1116
    1074 TCAAACCTGGGCTCCAGAACACTGGGCCCTACAGCTTGA 1116

RESULTS 9
/ Sequence 4, Application US/10272411
/ Publication No. US20030100068A1
GENERAL INFORMATION:
/ APPLICANT: Barnes Jewish Hospital
/ APPLICANT: Lam, Jonathan
/ APPLICANT: Ross, P. Patrick
/ APPLICANT: Teitelbaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 60019620-0202
CURRENT APPLICATION NUMBER: US/10/272,411
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: 60/329,393
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIN version 3.1
SEQ ID NO: 4
/ LENGTH: 1643
/ TYPE: DNA
/ ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
/ DATABASE ACCESSION NUMBER: NCBI/ X01394.1
/ DATABASE ENTRY DATE: 1995-03-21
/ RELEVANT RESIDUES: (1)...(1643)
/ PUBLICATION INFORMATION:
/ DATABASE ACCESSION NUMBER: NCBI/ BC028148.1
/ DATABASE ENTRY DATE: 2002-05-01
/ RELEVANT RESIDUES: (1)...(1643)
/ PUBLICATION INFORMATION:
/ DATABASE ACCESSION NUMBER: NCBI/ M35592.1
/ DATABASE ENTRY DATE: 1993-04-27
/ RELEVANT RESIDUES: (1)...(1643)
/ PUBLICATION INFORMATION:
/ DATABASE ACCESSION NUMBER: NCBI/ XM_165823.1
/ DATABASE ENTRY DATE: 2002-08-01
/ RELEVANT RESIDUES: (1)...(1643)
US-10-272-411-4

Query Match Score 43; DB 15; Length 1643;
Best Local Similarity 100.0%; Pred. No. 5.7e-08; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; DB 1643

    1 TCAAATGGGCCTCCAGAACACTGGGCCCTACAGCTTGA 43

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Db 1074 TCAA
ACTGGGCTCAGAACCTACTGGGCTACAGCTTG 1116

RESULT 10
US-10-218-547-3
Sequence 3, Application US/10218547
Publication No. US20030100074A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases Rel
CURRENT APPLICATION NUMBER: US/10/218,547
CURRENT FILING DATE: 2002-08-15
PRIORITY NUMBER: 60/312,542
PRIORITY FILING DATE: 2001-08-16
PRIORITY NUMBER: 60/330,761
PRIORITY FILING DATE: 2001-10-30
NUMBER OF SEQ ID NOS: 57
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 1643
TYPE: DNA
ORGANISM: human
US-10-218-547-3

Query Match 100.0%; Score 43; DB 15; Length 1643;
Best Local Similarity 100.0%; Pred. No. 5.7e-08;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAA
ACTGGGCTCAGAACCTACTGGGCTACAGCTTG 43
Db 1074 TCAA
ACTGGGCTCAGAACCTACTGGGCTACAGCTTG 1116

RESULT 11
US-10-272-328A-4
Sequence 4, Application US/10272328A
Publication No. US2003010944A1
GENERAL INFORMATION:
APPLICANT: Barnes Jewish Hospital
APPLICANT: Iam, Jonathan
APPLICANT: Ross, P. Patrick
APPLICANT: Teitelbaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 6019620-0206
CURRENT APPLICATION NUMBER: US/10/272,328A
CURRENT FILING DATE: 2003-01-24
PRIORITY NUMBER: 60/329,393
PRIORITY FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 1643
TYPE: DNA
ORGANISM: Homo sapiens
US-10-272-328A-4

Query Match 100.0%; Score 43; DB 15; Length 1643;
Best Local Similarity 100.0%; Pred. No. 5.7e-08;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAA
ACTGGGCTCAGAACCTACTGGGCTACAGCTTG 43
Db 1074 TCAA
ACTGGGCTCAGAACCTACTGGGCTACAGCTTG 1116

RESULT 12
US-10-247-671-68
Sequence 68, Application US/10247671
GENERAL INFORMATION:

LOCATION: (2171)..(3381)
 / PUBLIC INFORMATION:
 / AUTHORS: Nedwin, G.E.
 / AUTHORS: Nayor, S.L.
 / AUTHORS: Sakaguchi, A.Y.
 / AUTHORS: Smith, D.
 / AUTHORS: Jarrett-Nedwin, J.
 / AUTHORS: Pennica, D.V.
 / AUTHORS: Goeddel, D.V.
 / AUTHORS: Gray, P.W.
 / TITLE: Human lymphotoxin and tumor necrosis factor genes: structure, homology and
 / chromosomal localization
 / VOLUME: Nucleic Acids Res.
 / ISSUE: 13
 / PAGES: 6361-6373
 / DATE: 1985-09-11
 / DATABASE ACCESSION NUMBER: X02910 Genbank
 / DATABASE ENTRY DATE: 1997-02-17
 / US-09-824-3224-B-1

Query Match Score 43; DB 11; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 5.8e-08;
 Matches 43; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 TCAAATGGGCCCTCGAGACTGAGCTTGAA 43
 Db 2812 TCAAATGGGCCCTCGAGACTGAGCTTGAA 2854

RESULT 14
 US-09-932-300-34
 / Sequence 34, Application US/09932300
 / Publication No. US20030032788A1
 / GENERAL INFORMATION:
 / APPLICANT: GARVER, Eric
 / APPLICANT: TU, Guang-Chou
 / APPLICANT: ISRAEL, Yedy
 / TITLE OF INVENTION: METHODS OF INHIBITING ALCOHOL CONSUMPTION
 / FILE REFERENCE: 9855-3U2
 / CURRENT APPLICATION NUMBER: US/09/932,300
 / CURRENT FILING DATE: 2001-08-20
 / PRIOR APPLICATION NUMBER: US 60/051,705
 / PRIOR FILING DATE: 1997-07-03
 / PRIOR APPLICATION NUMBER: US 09/109,663
 / PRIOR FILING DATE: 1998-07-02
 / NUMBER OF SEQ ID NOS: 111
 / SOFTWARE: Patentin Ver. 2.1
 / SEQ ID NO: 34
 / LENGTH: 3634
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / US-09-932-300-34

Query Match Score 43; DB 11; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 5.8e-08;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAATGGGCCCTCGAGACTGAGCTTGAA 43
 Db 2812 TCAAATGGGCCCTCGAGACTGAGCTTGAA 2854

RESULT 15
 US-10-191-997-104
 / Sequence 104, Application US/10191997
 / Publication No. US2003020734A1
 / GENERAL INFORMATION:
 / APPLICANT: Oligos Etc., Inc.
 / APPLICANT: ARROW, Amy
 / APPLICANT: THOMPSON, Terry
 / TITLE OF INVENTION: Oligonucleotide-Containing Pharmacological Compositions And Their

FILE REFERENCE: 54800-5019
 / CURRENT APPLICATION NUMBER: US/10/191,997
 / CURRENT FILING DATE: 2002-07-10
 / PRIOR APPLICATION NUMBER: US 60/303,820
 / PRIOR FILING DATE: 2001-07-10
 / NUMBER OF SEQ ID NOS: 132
 / SOFTWARE: Patentin version 3.1
 / SEQ ID NO: 104
 / LENGTH: 3634
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / FEATURE:
 / NAME/KEY: misc feature
 / OTHER INFORMATION: X02910
 / US-10-191-997-104

Query Match Score 43; DB 13; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 5.8e-08;
 Matches 43; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 TCAAATGGGCCCTCGAGACTGAGCTTGAA 43
 Db 2812 TCAAATGGGCCCTCGAGACTGAGCTTGAA 2854

Search completed: February 3, 2004, 09:06:06
 Job time : 770.932 secs

GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 04:34:26 ; Search time 33.3469 Seconds

(without alignments)
569.152 Million cell updates/sec

Title: US-09-801-371A-2

Perfect score: 43

Sequence: 1 tccaaactggggctccagaa.....actggggctacatcggttga 43

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched:

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:

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3: /cgn2_6/pctodata/2/ina/6A_COMB.seq;*
4: /cgn2_6/pctodata/2/ina/6B_COMB.seq;*
5: /cgn2_6/pctodata/2/ina/PC7US_COMB.seq;*
6: /cgn2_6/pctodata/2/ina/backfile1.seq;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	100.0	787	4	US-09-3277A-13
2	43	100.0	787	4	US-09-229-151C-7
3	43	100.0	1643	3	US-08-380-342-36
4	43	100.0	1643	4	US-09-305-240-4
5	43	100.0	2270	4	US-09-329-151C-13
6	43	100.0	2570	4	US-09-229-151C-14
7	43	100.0	3634	3	US-09-166-186-1
8	43	100.0	3634	3	US-09-113-312-1
9	43	100.0	3634	3	US-09-109-663-34
10	21.4	49.8	24707	4	US-09-140-077-3
11	21	48.8	771	5	PC7-US91-122887-1
12	21	48.8	771	5	PC7-US95-129887-3
13	21	48.8	771	5	PC7-US95-129887-5
14	20.8	48.4	861	1	US-08-409-731A-1
15	20.8	48.4	861	2	US-08-470-298B-1
16	20.8	48.4	861	2	US-09-023-07A-1
17	20.8	48.4	861	3	US-09-361-737-1
18	20.8	48.4	944	2	US-08-320-325-1
19	20.8	48.4	944	3	US-09-307-917-1
20	20.8	48.4	944	4	US-09-34-036-1
21	20.8	48.4	957	3	US-08-399-031-2
22	20.8	48.4	65942	4	US-09-784-316-3
C 23	20	46.5	20	3	US-09-166-186-32
C 24	20	46.5	20	3	US-09-166-186-212
C 25	20	46.5	20	3	US-09-166-186-214
C 26	20	46.5	20	3	US-09-313-932-32
C 27	46.5	20	3		

RESULT 1
US-09-032-297A-13
i Sequence 13, Application US/09032297A
i Patent No. 6522184
i GENERAL INFORMATION:
i APPLICANT: Revati J. Tatak, Steven D. Marlin and Randall W. Barton
i TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells By Gene Therapy
i NUMBER OF SEQUENCES: 13
i CORRESPONDENCE ADDRESS:
i ADDRESSEE: Boehringer Ingelheim Corporation
i STREET: 900 Ridgebury Road, P.O. Box 368
i STATE: Connecticut
i COUNTRY: United States of America
i ZIP: 06877-0368
i COMPUTER READABLE FORM:
i MEDIUM TYPE: 3.5" 1.44 Mb diskette
i COMPUTER: IBM PC
i OPERATING SYSTEM: MS DOS
i SOFTWARE: Word Processing
i CURRENT APPLICATION DATA:
i APPLICATION NUMBER: US/09/032-297A
i FILING DATE: 27-Feb-1998
i CLASSIFICATION: <Unknown>
i PRIORITY APPLICATION NUMBER: 60/038,266
i ATTORNEY/AGENT INFORMATION:
i NAME: Robert P. Raymond
i COMPUTER: IBM PC
i REGISTRATION NUMBER: 25089
i REFERENCE/DOCKET NUMBER: 9/121PCT
i TELECOMMUNICATION INFORMATION:
i TELEPHONE: 203-791-5183
i INFORMATION FOR SEQ ID NO: 13:
i SEQUENCE CHARACTERISTICS:
i LENGTH: 787
i MOLECULE TYPE: nucleic acid
i STRANDEDNESS: single
i TOPOLOGY: linear
i DESCRIPTION: DNA
i FEATURE:
i NAME/KEY: TNFA 3' untranslated region
i SEQUENCE DESCRIPTION: SEQ ID NO: 13:
i US-09-032-297A-13

Query Match Similarity 100.0% Score 43; DB 4; Length 787;
Best Local Similarity 100.0% Pred. No. 1.5e-08;

RESULT 2
US-09-229-151C-7

Query 1 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 43
Db 226 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 268

Matched 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

APPLICATION NUMBER: US 08/365,486
FILING DATE: 23-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 8255-0018-30
REFERENCE/DOCKET NUMBER: 8255-0018-30
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0580
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 36;
SEQUENCE CHARACTERISTICS:
LENGTH: 1643 base pairs
TYPE: nucleic acid
STRANDBNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: TNF CDNA HSTNFR (EMBL Accession #X01394)
INDIVIDUAL ISOLATE: #X01394)

FEATURE/NAME/KEY: CDS
LOCATION: 153...851
US-08-880-342-36

Query Match Score 43; DB 3; Length 1643;
Best Local Similarity 100.0%; Pred. No. 1.7e-08; Indels 0; Gaps 0;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 4
US-09-505-250-4

Query 1 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 43
Db 1074 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 1116

Matched 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

APPLICATION ROSEN, Glenn
SEQUENCE 4, Application US/09505250A
PATENT NO. 6329148
GENERAL INFORMATION:
APPLICANT: Kao, Peter
TITLE OF INVENTION: Synergistic Anti-Cancer Therapy with Triptolides and Death Domain Ligands
FILE REFERENCE: SUN-105BRV2
CURRENT APPLICATION NUMBER: US/09/505,250A
CURRENT FILING DATE: 2000-02-15
NUMBER OF SEQ ID NO: 4
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4
LENGTH: 1643
TYPE: DNA
ORGANISM: H. sapiens
FEATURE/NAME/KEY: CDS
LOCATION: (153)...(854)
US-09-505-250-4

Query Match Score 43; DB 4; Length 1643;
Best Local Similarity 100.0%; Pred. No. 1.7e-08; Indels 0; Gaps 0;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 5
US-09-229-151C-13

Query 1 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 43
Db 1074 TCAAACTGGGCTCCAGAACTCACTGGGCCCTACAGCTTGA 1116

Matched 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

APPLICATION NUMBER: US/08/880,342
FILING DATE: 23-JUN-1997
CLASSIFICATION: 514
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/880,342
FILING DATE: 23-JUN-1997
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/IB95/00996
FILING DATE: 13-NOV-1995
PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US/09229151C
SEQUENCE 13, Application US/09229151C
PATENT NO. 6537784
GENERAL INFORMATION:
APPLICANT: Tatake, Revati J.

APPLICANT: Marlin, Steven D.
 APPLICANT: Barton, Randall W.
 TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy
 FILE REFERENCE: 9/137
 CURRENT APPLICATION NUMBER: US/09/229,151C
 CURRENT FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: US 60/076,316
 PRIOR FILING DATE: 1998-02-27
 NUMBER OF SEQ ID NOS: 15
 SOFTWARE: Patentin version 2.0
 SEQ ID NO: 13
 LENGTH: 2270
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 OTHER INFORMATION: chimeric gene : -706TNFpGB3'UTR
 US-09-229-151C-13

Query Match Score 43; DB 4; Length 2270;
 Best Local Similarity 100.0%; Pred. No. 1.8e-08;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 43
 Db 1709 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 1751

RESULT 6 US-09-229-151C-14
 Sequence 14, Application US/09229151C
 Patent No. 6537784
 GENERAL INFORMATION:
 APPLICANT: Marlin, Steven D.
 APPLICANT: Barton, Randall W.
 TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy
 FILE REFERENCE: 9/137
 CURRENT APPLICATION NUMBER: US/09/229,151C
 CURRENT FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: US 60/076,316
 PRIOR FILING DATE: 1998-02-27
 NUMBER OF SEQ ID NOS: 15
 SOFTWARE: Patentin version 2.0
 SEQ ID NO: 14
 LENGTH: 2570
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 OTHER INFORMATION: chimeric gene : -1005TNFpGB3'UTR
 US-09-229-151C-14

Query Match Score 43; DB 4; Length 2570;
 Best Local Similarity 100.0%; Pred. No. 1.9e-08;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 43
 Db 2009 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 2051

NUMBER OF SEQ ID NOS: 250
 SEQ ID NO: 1
 LENGTH: 3634
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (796..981,1589..1634,1822..1869,2171..2592)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (615)..(981)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (982)..(1588)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1589)..(1634)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1635)..(1821)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1822)..(1869)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1870)..(2070)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (2171)..(3181)
 PUBLICATION INFORMATION:
 AUTHORS: Nedwin, G.E.
 AUTHORS: Naylor, S.L.
 AUTHORS: Sakaguchi, A.Y.
 AUTHORS: Smith, D.
 AUTHORS: Jarrett-Nedwin, J.
 AUTHORS: Pennica, D.
 AUTHORS: Goeddel, D.V.
 AUTHORS: Gray, P.W.
 TITLE: Human lymphotoxin and tumor necrosis factor genes: structure,
 JOURNAL: Nucleic Acids Res.
 VOLUME: 13
 ISSUE: 17
 PAGES: 6361-6373
 DATE: 1985-09-11
 DATABASE ACCESSION NUMBER: X02910 Genbank
 DATABASE ENTRY DATE: 1997-02-17
 US-09-166-186-1

Query Match Score 43; DB 3; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 2e-08;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 43
 Db 2812 TCAAATCTGGGCCTCCAGAACTCACTGGGCCATAAGCTTGA 2854

RESULT 8 US-09-113-932-1
 Sequence 1, Application US/09313932A
 Patent No. 6228642
 GENERAL INFORMATION:
 APPLICANT: Baker, Brenda
 APPLICANT: Bennett, C. Frank
 APPLICANT: Butler, Madeline M.
 APPLICANT: Shanahan, William R.
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-
 EXPRESSION
 FILE REFERENCE: ISPH-035
 CURRENT APPLICATION NUMBER: US/09/313,932A
 CURRENT FILING DATE: 1999-05-18
 NUMBER OF SEQ ID NOS: 501

SEQ ID NO 1
 LENGTH: 3634
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (796..981,1589..1634,1822..1869,2171..2592)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (615)..(981)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (982)..(1588)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1589)..(1634)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1635)..(1821)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1822)..(1869)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1870)..(2070)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (2171)..(3381)
 PUBLICATION INFORMATION:
 AUTHORS: Nedwin, G.E.
 AUTHORS: Navlak, S.L.
 AUTHORS: Saiguchi, A.Y.
 AUTHORS: Smith, D.
 AUTHORS: Jarrett-Nedwin, J.
 AUTHORS: Penica, D.
 AUTHORS: Goeddel, D.V.
 AUTHORS: Gray, P.W.
 TITLE: Human lymphotxin and tumor necrosis factor genes:
 JOURNAL: Structure, homology and chromosomal localization
 VOLUME: 13
 ISSUE: 17
 PAGES: 6361-6373
 DATE: 1985-09-11
 DATABASE ACCESSION NUMBER: X02910 Genbank
 DATABASE ENTRY DATE: 1997-02-17
 US-09-313-942-1

Query Match 100.0%; Score 43; DB 3; Length 3634;
 Best Local Similarity 100.0%; Fred. No.; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0;

Qy 1 TCAACTGGGCTCCAGAACACTGGGGCTACAGCTTGA 43
 Db 2812 TCAACTGGGCTCCAGAACACTGGGGCTACAGCTTGA 2854

RESULT 19
 US-09-109-663-34
 Sequence 34, Application US/09109663
 GENERAL INFORMATION:
 APPLICANT: Mr. Guang-Chou
 APPLICANT: Israel, Yedy
 TITLE OF INVENTION: AN IMPROVED METHOD FOR DESIGN AND SELECTION OF
 TITLE OF INVENTION: EFFICACIOUS ANTISENSE OLIGONUCLEOTIDES
 FILE REFERENCE: 98553U1
 CURRENT APPLICATION NUMBER: US/09/109, 663
 EARLIER APPLICATION NUMBER: 60/051, 705
 EARLIER FILING DATE: 1997-07-03
 NUMBER OF SEQ ID NOS: 81
 SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 34
 LENGTH: 3634
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: TNF (alpha) CDNA
 US-09-109-663-34

Query Match 100.0%; Score 43; DB 3; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 2e-08; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAACTGGGCTCCAGAACACTGGGGCTACAGCTTGA 43
 Db 2812 TCAACTGGGCTCCAGAACACTGGGGCTACAGCTTGA 2854

RESULT 10
 US-09-740-027-3
 Sequence 3, Application US/097400027
 GENERAL INFORMATION:
 APPLICANT: Ms. Jane et al.
 PATENT NO. 6485939
 TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER COPACTOR PROTEINS, NUCLEAR ACID MOLECULES ENCODING HUMAN TRANSPORTER COPACTOR PROTEINS, AND USERS THEREOF
 TITLE OF INVENTION: COPACTOR PROTEINS, AND USERS THEREOF
 FILE REFERENCE: CL001052
 CURRENT APPLICATION NUMBER: US/09/740, 027
 CURRENT FILING DATE: 2000-12-20
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 3
 LENGTH: 24707
 TYPE: DNA
 ORGANISM: Human
 US-09-740-027-3

Query Match 49.8%; Score 21.4; DB 4; Length 24707;
 Best Local Similarity 80.6%; Pred. No. 16;
 Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 TCAACTGGGCTCCAGAACACTCTGGGC 31
 Db 11941 TCCACITTCGCTCGGAATCAGCTGGGC 11971

RESULT 11
 PC-US5-12987-1
 Sequence 1, Application PC/TUS9512987
 GENERAL INFORMATION:
 APPLICANT: LAFERINA, R.
 APPLICANT: SARDANA, V.
 APPLICANT: VELOSKI, C.
 TITLE OF INVENTION: STABLE RECOMBINANT HCMV PROTEASE
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ROY D. MEREDITH
 STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
 CITY: Rahway
 STATE: NEW JERSEY
 COUNTRY: USA
 ZIP: 07065-0907
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PC/TUS95/12987
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: MEREDITH, ROY D.

REGISTRATION NUMBER: 30,777
 REFERENCE DOCKET NUMBER: 15262 PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 594-678
 TELEFAX: (908) 594-4720
 SEQUENCE CHARACTERISTICS:
 LENGTH: 771 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 Docket-US95-12987-1

	Query Match	Score	DB	Length
1	TCAAACTGGGCTTCCAGAATCTCTGGGCCCTACAG	48.8%	5	771
2	TCAACAGCGGTTCAGACCTACCGCCGACCG	73.0%	13	37
3	539	27	0	Indels

RESULT 13
PCT-US95-112987-5
; Sequence 5, Application PC/TU95112987
; GENERAL INFORMATION:
; APPLICANT: LAFEMINA, R.
; APPLICANT: SARDANA, V.
; APPLICANT: VELOSKI, C.
; TITLE OF INVENTION: STABLE RECOMBINANT HCMV PROTEASE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROY D. MEREDITH
; STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
; CITY: RAILWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0907
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS MS-DOS

RESULT 12
PCT-US5-12987-3
Sequence 3, Application PC/TUS9512987
GENERAL INFORMATION:
APPLICANT: LAFENTINA, R.
APPLICANT: SARDANA, V.
APPLICANT: VELOSKI, C.
TITLE OF INVENTION: STABLE RECOMBINANT HCMV PROTEASE
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: ROY D. MEREDITH
STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
CITY: Rahway
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07065-0907
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

APPLICATION NUMBER: PCT/US95/12987
 FILING DATE: 12-01-1995
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME : MEREDITH, ROY D.
 REGISTRATION NUMBER: 30,777
 REFERENCE/SOCKET NUMBER: 19262 PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 594-4720
 TELEXPHONE: (908) 594-4720
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 771 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 PCT-US95-12987-3

Query	Match	Score	DB	Length
Best Local Matches	1 TCAAACTGGGCMCCAGAACTCACTGGGCCACAG	48.8%	5	37
Local Similarity	539 TCAACAGGGTTTCAGCCTTCAGGCCACCG	73.0%	13	575
Matches	27; Conservative	0;	Mismatches	10;
			Indels	

RESULT 13
PCT-US95-112987-5
; Sequence 5, Application PC/TU95112987
; GENERAL INFORMATION:
; APPLICANT: LAFEMINA, R.
; APPLICANT: SARDANA, V.
; APPLICANT: VELOSKI, C.
; TITLE OF INVENTION: STABLE RECOMBINANT HCMV PROTEASE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROY D. MEREDITH
; STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
; CITY: RAILWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0907
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS MS-DOS

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/12987
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MEREDITH, ROY D.
REGISTRATION NUMBER: 30,777
REFERENCE/DOCKET NUMBER: 19262 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-4678
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 771 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-12987-5

Query Match	DB 5	Length 771;
48.8%	Score 21	

Matches 27; Conserv 0; Mismatches 10; Indels 0

Qy 1 TCAACTGGGCTTCAGAACTCTGGGCCCTAG 37
Db 539 TCACACGGCTTCAGCTCAGGCCAGCCG 575

RESULT 14
US-08-409-731A-1
Sequence 1, Application US/08409731A
Patent No. 5558758
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Yu, Guo-Liang
APPLICANT: Gentz, Reiner
APPLICANT: Rosen, Craig A.
TITLE OF INVENTION: CYTOSTATIN I
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESS: HUMAN GENOME SCIENCES, INC.
STREET: 9410 KEY WEST AVENUE
CITY: ROCKVILLE
STATE: MD
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

RESULT 13
PCT-US95-112987-5
; Sequence 5, Application PC/TU95112987
; GENERAL INFORMATION:
; APPLICANT: LAFEMINA, R.
; APPLICANT: SARDANA, V.
; APPLICANT: VELOSKI, C.
; TITLE OF INVENTION: STABLE RECOMBINANT HCMV PROTEASE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROY D. MEREDITH
; STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
; CITY: RAILWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0907
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS MS-DOS

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/12987
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MEREDITH, ROY D.
REGISTRATION NUMBER: 30,777
REFERENCE/DOCKET NUMBER: 19262 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-4678
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 771 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-12987-5

Query Match	DB 5	Length 771;
48.8%	Score 21	

Matches 27; Conservative 0; Mismatches 10; Indels 0

Qy 1 TCAACTGGGCTTCAGAACTCTGGGCCCTAG 37
Db 539 TCACACGGCTTCAGCTCAGGCCAGCCG 575

RESULT 14
US-08-409-731A-1
Sequence 1, Application US/08409731A
Patent No. 5558758
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Yu, Guo-Liang
APPLICANT: Gentz, Reiner
APPLICANT: Rosen, Craig A.
TITLE OF INVENTION: CYTOSTATIN I
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESS: HUMAN GENOME SCIENCES, INC.
STREET: 9410 KEY WEST AVENUE
CITY: ROCKVILLE
STATE: MD
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/409,731A
 FILING DATE: 24-MAR-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Benson, Robert H.
 REGISTRATION NUMBER: 30,446
 REFERENCE/DOCKET NUMBER: PF175
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 301-309-8504
 TELEFAX: 301-309-8512
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 861 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)

FEATURE:

NAME/KEY: CDS

LOCATION: 94..414

US-08-409-731A-1

Query Match
 Best Local Similarity 48.4%; Score 20.8%; Pred. No. 16; Length 861;
 Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 11 GCCTCCAGAACTCACTGGGCCATAGCTTG 42
 Db 96 GCCTCCACCTCACTGGCTACTACCGCTTG 127

RESULT 15
 US-08-470-298B-1
 Sequence 1, Application US/08470298B

GENERAL INFORMATION:

APPLICANT: NI, JIAN

APPLICANT: GENTZ, REINER

APPLICANT: YU, GUO-LIANG

APPLICANT: ROSEN, CRAIG A.

TITLE OF INVENTION: CYTOSTATIN I

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: HUMAN GENOME SCIENCES, INC.
 STREET: 9410 KEY WEST AVENUE
 CITY: ROCKVILLE
 STATE: MD
 COUNTRY: US
 ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/470,298B

FILING DATE: 06-JUN-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BROOKES, ALLAN A.

REGISTRATION NUMBER: 36,373

REFERENCE/DOCKET NUMBER: PF175D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 301-309-8504

TELEFAX: 301-309-8512

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 861 base Pairs

TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)

FEATURE:

NAME/KEY: CDS

LOCATION: 94..414

US-08-470-298B-1

Query Match
 Best Local Similarity 48.4%; Score 20.8%; DB 2; Length 861;
 Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 11 GCCTCCAGAACTCACTGGGCCATAGCTTG 42

Db 96 GCCTCCACCTCACTGGCTACTACCGCTTG 127

Search completed: February 3, 2004, 06:14:28
 Job time : 35.3469 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on:

February 3, 2004, 03:10:21 ; Search time 119.054 Seconds
 (without alignments)

974.981 Million cell updates/sec

Title: US-09-801-371A-2

Perfect score: 43

Sequence: tcaactgggctccagaa.....actggggctacatgttgc 43

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Scoring table: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing First 45 summaries

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 3: /SIDS1/gcgdata/geneseq/geneseq-emb1/NA1982.DAT;*
 4: /SIDS1/gcgdata/geneseq/geneseq-emb1/NA1983.DAT;*
 5: /SIDS1/gcgdata/geneseq/geneseq-emb1/NA1984.DAT;*
 6: /SIDS1/gcgdata/geneseq/geneseq-emb1/NA1985.DAT;*
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25: /SIDS1/gcgdata/geneseq/geneseq-emb1/NA2003.DAT;*
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RESULT 1

ID AAZ99817

standard; RNA; 43 BP;

XX

AAZ99817;

AAZ99817

</div

PT Regulation of gene expression by mRNA splicing is carried out using a
 PT cis-acting nucleotide sequence controlled by phosphorylation of the
 PT alpha-subunit of eukaryotic initiation factor 2 -
 XX
 PS Claim 5; Page 15; 75pp; English.

CC The specification describes a cis-acting nucleotide sequence which is
 CC capable of removing introns from a precursor transcript encoded by a
 CC gene which harbours at least one cis-acting nucleotide sequence. This
 CC removal is effected during the production of mRNA of the gene, and
 CC depends on activation of a trans-acting factor which is an RNA-activated
 CC protein kinase capable of phosphorylating the alpha-subunit of eukaryotic
 CC initiation factor 2 (eIF2alpha). Insertion of a cis-acting nucleotide
 CC sequence, derived from the 3'-untranslated region (3'UTR) of the human
 CC tumour necrosis factor alpha (TNF-alpha) gene, into another gene renders
 CC splicing of precursor transcripts encoded by that gene sensitive to the
 CC level of RNA-activated protein kinase (PKR) activity. The sequence can
 CC be used to transform host cells to regulate gene expression at the mRNA
 CC splicing level, for gene therapy, and to produce a recombinant
 CC therapeutic (e.g. an enzyme, hormone, growth factor, cytokine, structural
 CC protein) or industrially or agriculturally applicable protein. The
 CC present sequence represents a fragment of the 3'UTR of human TNF-alpha.
 XX Sequence 50 BP; 12 A; 15 C; 12 G; 11 U; 0 other;
 SQ

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Query Match 100 0%; Score 43; DB 21; Length 50;
Best Local Similarity 79.1%; Pred. No. 2e-07;
Matches 34; Conservative 9; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCAAACCTGGGCGCTCCAGAACTACTGGGGCTACAGCTTGAA 43

Db 5 UCAAATCUGGGCGCUCCAGAAUCATGGGCCUACAGCTTUGA 47

Sequence 43 BP; 10 A; 13 C; 11 G; 9 T; 0 other;

SQ

RESULT 3

AAZ99816 standard; RNA; 104 BP.

ID AAZ99816

XX

AC AAZ99816;

DT 12-JUL-2000 (first entry)

XX Cis-acting nucleotide sequence derived from human TNF-alpha.

DB XX Cis-acting sequence; intron removal; trans-acting factor; alpha-subunit;
 KW RNA-activated protein kinase; eukaryotic initiation factor 2; eIF2alpha;
 KW tumour necrosis factor alpha; TNF-alpha; gene therapy; ss.
 XX OS WO200014255-A1.

XX DT 12-JUL-2000

XX Homo Sapiens.

XX OS WO200014255-A1.

XX PN 06-SEP-1999;

XX PR 07-SEP-1998;

XX PR 26-OCT-1998;

XX XX (YISS) YISSUM RES & DEV CO.

XX PA (YISS) YISSUM RES & DEV CO.

XX PI Kaempfer R, Osman F, Jarrous N, Ben-Asouli Y;

XX DR 2000-257000/22.

XX PT Regulation of gene expression by mRNA splicing is carried out using a
 PT cis-acting nucleotide sequence controlled by phosphorylation of the
 PT alpha-subunit of eukaryotic initiation factor 2 -

XX XX Claim 4; Page 15; 75pp; English.

CC The specification describes a cis-acting nucleotide sequence which is
 CC capable of removing introns from a precursor transcript encoded by a
 CC gene which harbours at least one cis-acting nucleotide sequence. This
 CC removal is effected during the production of mRNA of the gene, and
 CC depends on activation of a trans-acting factor which is an RNA-activated
 CC protein kinase capable of phosphorylating the alpha-subunit of eukaryotic
 CC initiation factor 2 (eIF2alpha). Insertion of a cis-acting nucleotide
 CC sequence, derived from the 3'-untranslated region (3'UTR) of the human
 CC tumour necrosis factor alpha (TNF-alpha) gene, into another gene renders

PT Regulation of gene expression by mRNA splicing is carried out using a
 PT cis-acting nucleotide sequence controlled by phosphorylation of the
 PT alpha-subunit of eukaryotic initiation factor 2 -
 XX XX Example 7; Fig 5B; 75pp; English.
 XX The specification describes a cis-acting nucleotide sequence which is

CC splicing of precursor transcripts encoded by that gene sensitive to the level of RNA-activated protein kinase (PRK) activity. The sequence at the mRNA level can be used to transform host cells to regulate gene expression.

CC splicing level, for gene therapy, and to produce a recombinant therapeutic (e.g. an enzyme, hormone, growth factor, cytokine, structural protein) or industrially or agriculturally applicable protein. The present sequence represents a cis-acting nucleotide sequence of the invention.

XX Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;
 Query Match Score 43; DB 21; Length 104;
 Best Local Similarity 100.0%; Pred. No. 3e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 43
 Db 5 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 47

RESULT 4

AAZ20579
 ID PAAZ20579 standard; DNA; 787 BP.

XX AC
 XX DT 30-NOV-1990 (first entry)

XX DE Human TNFalpha 3' UTR.

XX 'TNFalpha; tumour necrosis factor alpha; apoptosis; inflammation;
 XX Chimeric; multiple sclerosis; Crohn's disease; ulcerative colitis;
 XX Diabetics; graft versus host disease; lupus erythematosus;
 XX Diabetics; ankylosing spondylitis; rheumatoid arthritis; ds.
 XX Homo sapiens.

XX OS WO9943840-A1.
 XX PN
 XX PD 02-SEP-1990.

XX PF 12-JAN-1999; 99WO-US00637.
 XX PR 27-FEB-1998; 98US-0076316.

XX PA (BOEHRINGER INGELHEIM PHARM INC.
 XX PI Tatake RJ, Marlin SD, Barton RW;
 XX DR WPI; 1999-527630/44.

PT A chimeric polynucleotide consisting of a tumour necrosis factor (TNF) promoter and an apoptosis-inducing Granzyme B polynucleotide -
 PT Example 1; Page 60-61; 71pp; English.

XX This sequence represents a human TNFalpha (tumour necrosis factor alpha) 3'UTR (untranslated region). Chimeric nucleotides (AA220933, 220984) were constructed comprising at least one TNFalpha promoter enhancer region (AA20972-220974), a TNFalpha promoter (AA20972-220974), a DNA encoding the apoptosis-inducing Granzyme B protein (AA220982), and a TNFalpha 3'UTR sequence. TNFalpha is one of a number of cytokines produced by inflammatory cells. Upregulation and/or dysregulation of cytokines in inflamed tissue may be directly or indirectly responsible for exacerbation of chronic inflammatory diseases. Introduction of the chimeric nucleotide to activated inflammatory cells causes them to undergo apoptosis. Pharmaceutical compositions of the chimeric nucleotide may be useful for treating inflammatory disorders such as multiple sclerosis, Crohn's disease, ulcerative colitis, psoriasis, graft versus host disease, lupus erythematosus, insulin-dependent (type I) diabetes mellitus, ankylosing spondylitis, and in particular, rheumatoid arthritis. The use of such chimeric nucleotides offers simpler and cheaper long-term relief, in

CC comparison with existing conventional pharmaceutical and invasive surgery methods.

XX SQ Sequence 787 BP; 190 A; 204 C; 172 G; 221 T; 0 other;

Query Match Score 43; DB 20; Length 787;
 Best Local Similarity 100.0%; Pred. No. 3e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 43
 Db 226 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 268

RESULT 5

AAN70075
 ID AAN70075 standard; DNA; 815 BP.

XX AAN70075;

XX DT 25-MAR-2003 (updated)
 DT 20-JAN-1991 (first entry)

XX Human anti-tumor polypeptide Xho-PatI fragment.
 XX DE
 XX KW Anti-tumor; cancer; cytotoxic; 88.

OS Homo sapiens.

XX EN EP247306-A.

XX PD 02-DEC-1987.

XX PP 04-FEB-1987; 87EP-0400261.

XX PP 04-FEB-1986; 86JP-0021302.
 PR 07-FEB-1986; 86JP-002420.
 PR 17-JUL-1986; 86JP-0169522.

XX PA (MIZU) MIZUNO D.

XX PI Mizuno D;
 PI Soma GR;

XX DR 1987-336540/4B.

XX PT Anti-tumor polypeptides - prepared using recombinant DNA Prepared from genomic DNA of human acute leukemia cell THP-1.
 XX Disclosure: Fig 7; 63pp; English.
 XX PT
 PT from genomic DNA of human acute leukemia cell THP-1.
 XX PS
 XX The sequence is an Xho-PatI fragment of an anti-tumor protein.
 CC The polypeptide is cytotoxic to human tumor cells but not to normal cells. They are also cytotoxic to primary cell cultures obtained from metastasis lesions of patients suffering from striated muscle tumors. They are also resistant to all chemotherapeutic agents. See also AAN70073-74, AAP0077-78 and AAP5592.
 CC (Updated on 25-MAR-2003 to correct PR field.)

XX SQ Sequence 815 BP; 183 A; 267 C; 205 G; 160 T; 0 other;

Query Match Score 43; DB 8; Length 815;
 Best Local Similarity 100.0%; Pred. No. 3e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 43
 Db 716 TCAAACTGGGCGCTCCGAACACTGGGCCCTAGGCTTGA 758

RESULT 6

AAC04340
 ID AAC04340 standard; DNA; 817 BP.

XX Section of gene for anticarcinogenic peptide. It is genomic DNA or cDNA from THP-1 cells.

XX Sequence 818 BP; 184 A; 268 C; 206 G; 160 T; 0 other;

CC Best Local Similarity 100.0%; Score 43; DB 10; Length 818;

CC Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

SQ Best Local Similarity 100.0%; Pred. No. 3e-07; DB 8; Length 1200;

XX Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DE Query Match 1 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 43

KW QY 1 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 43

XX Db 717 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 759

XX RESULT 8

XX AAN70072 standard; DNA; 1200 BP.

AC ID AAN70072

XX ID XX

AC AAN70072;

XX DT 25-MAR-2003 (updated)

AC DT 20-JAN-1991 (first entry)

PA XX Human anti-tumor polypeptide.

PA XX Anti-tumor; cancer; cytotoxic; ss.

XX KW Homo sapiens.

XX DR EP247905-A.

XX DE EP247905-A.

XX PD 02-DEC-1987.

XX PP 04-FEB-1987; 87EP-0400261.

XX PR 04-FEB-1986; 86JP-0021302.

XX PR 07-FEB-1986; 86JP-0024220.

XX PR 17-JUL-1986; 86JP-0169522.

XX PA (MIZU) MIZUNO D.

XX PI Mizuno D;

XX PI Soma G;

XX DR WPI; 1987-336540/48.

XX Anti-tumor polypeptides - prepared using recombinant DNA prepared from genomic DNA of human acute leukemia cell THP-1.

XX Disclosure: Fig 4; 63pp; English.

CC The polypeptide is cytotoxic to human tumor cells but not to normal cells. They are also cytotoxic to primary cell cultures obtained from metastasis lesions of patients suffering from striated muscle tumors. They are also resistant to all chemotherapeutic agents. See also AAN70073-75, AAP70077-78 and AIP95592.

CC (Updated on 25-MAR-2003 to correct PR field.)

XX SQ Sequence 1200 BP; 278 A; 329 C; 253 G; 253 T; 0 other;

XX DR Query Match 1 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 43

XX Best Local Similarity 100.0%; Score 43; DB 8; Length 1200;

XX Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DE QY 1 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 43

XX Db 1099 TCAAACCTGGGCTCCAGAACCTACGGGCCCTACAGCTTGA 1141

XX RESULT 9

XX AAN90969 standard; DNA; 1200 BP.

XX WPI; 1989-154899/21.

XX DR Novel DNA, plasmid and polypeptide(s)

XX - useful as anticarcinogenic agents

XX PS Fig 3; Page ?; 17pp; Japanese.

XX AAN90969; PR 15-OCT-1984; 84US-0661026.
 XX PR 07-FEB-1985; 85US-0695934.
 DT (CETU) CETUS CORP.
 XX PA
 DT Mark DF, Lin LS, Lu SDY, Wang AM;
 XX PI
 DE DR; WPI; 1986-225458/34.
 XX P-PSDB; AA960656.
 KW New synthetic mutants of human tumour necrosis factor protein -
 XX are obtd. by direct mutagenesis and retain antitumour activity
 DE Disclosure; Fig 3a; 47pp; English.
 XX
 CC The sequence encoding TNF produced by the promyelocytic leukemia
 CC cell line (HL-60, ATCC no. CCL240) has been cloned and expressed in
 CC E. coli (see AAN60557). Neither of the cysteine residues (69 and 101) in
 CC the TNF sequence appears to be involved in disulphide linkages. The
 CC patentors claim a novel synthetic mutant of a biologically active
 CC hTNF protein, having at least one cysteine residue free from a
 CC disulphide link and non-essential to the activity and having at least
 CC one of the cysteine residues deleted or replaced by another AA.
 CC Plasmid pAW731 (Ser 69) is claimed.
 XX SQ Sequence 1275 BP; 298 A; 357 C; 308 G; 312 T; 0 other;
 PS Query Match Score 43; DB 7; Length 1275;
 PT Best Local Similarity 100.0%; Pred. No. 3.e-07;
 PT Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PT ID AAN60363 Standard; DNA; 1323 BP.
 PT Qy 1 TCAAACTGGGGCTCCAGAACACTACTGGGGCTACAGCTTGA 43
 PT Db 697 TCAAACTGGGGCTCCAGAACACTACTGGGGCTACAGCTTGA 739
 PT
 RESULT 11
 XX Gene for anticarcinogenic peptide. It is genomic DNA or cDNA from THP-1
 CC cells.
 CC Updated on 25-MAR-2003 to correct PA field.)
 XX SQ sequence 1200 BP; 278 A; 329 C; 340 G; 253 T; 0 other;
 PS Query Match Score 43; DB 10; Length 1200;
 PS Best Local Similarity 100.0%; Pred. No. 3.2e-07;
 PS Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PS ID AAN60363 Standard; DNA; 1323 BP.
 PS XX 19-JUN-1991 (first entry)
 PS XX DS Sequence encoding human tumour necrosis factor.
 PS XX KW hTNF; tumour; cancer; interferon; ds.
 PS XX OS Homo sapiens.
 PS XX FH Key
 PS XX CDS Location/Qualifiers
 PS XX FT 1..534
 PS XX FT /*tag= a
 PS XX FT sig_peptide 1..60
 PS XX FT /*tag= b
 PS XX FT /label= Secretory leader peptide
 PS XX FT mat_peptide 61..534
 PS XX FT /*tag= c
 PS XX PN EP16814-A.
 PS XX PD 15-JAN-1986.
 PS XX PP 03-JUL-1985; 85EP-0304758.
 PS XX PR 03-DEC-1984; 84US-0677454.
 PS XX PR 05-JUL-1984; 84US-06227959.
 PS XX PR 05-JUL-1984; 84US-0628059.
 PS XX PR 05-JUL-1984; 84US-0628060.
 PS XX PR 03-DEC-1984; 84US-1677156.
 PS XX PR 03-DEC-1984; 84US-0677257.
 PS XX PR 25-JUL-1984; 84US-0622969.
 PS XX PR 03-DEC-1984; 84US-0677267.
 RESULT 10
 XX AAN60558
 XX ID PAN60558 Standard; DNA; 1275 BP.
 XX AC AAN60558;
 XX DT 28-JUL-1991. (first entry)
 XX DE Sequence encoding mature human tumour necrosis factor (hTNF) mutant
 DE DE Ser 69 in pAW731.
 XX Antitumour; anticancer; ss.
 XX OS Homo sapiens.
 XX Key Location/Qualifiers
 XX CDS 1..474
 XX FT /*tag= a
 XX PN WC8604606-A.
 XX PD 14-AUG-1986.
 XX PR 03-FEB-1986; 86WO-US00236.
 XX PP 07-FEB-1985; 85US-069839.
 XX PR 19-OCT-1982; 82US-1435154.
 XX PR 15-APR-1983; 83US-0486162.
 XX PR 20-DEC-1983; 83US-0564224.

XX (GETH) GENENTECH INC.
 PA Aggarwal BB, Lee SH, Goeddel DV, Nedwin GB;
 PI XX WPI: 1986-015483/03.
 DR P-PSDB; AAP60417.
 XX PT Pure tumour necrosis factor and mutant forms - new DNA coding
 PT sequences and transformed cells.
 XX PS Claim 20; Fig 10; 90pp; English.

CC Sequence encodes the pure human tumour necrosis factor, mutants of which are covered by the claims. TNF and mutants are useful in treating tumours, especially in tandem with interferon. The encoding sequence may be used to create plasmid pRTXAPTNF, allowing transformation of an E.coli host for the expression of TNF.

XX SQ Sequence 1323 BP; 298 A; 385 C; 310 G; 330 T; 0 other;

Y Query Match Score 43; DB 7; Length 1323;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCAAACTGGGCTCCAGAACCTACTGGGCCACACTTGA 43
 Db 754 TCAAACTGGGCTCCAGAACCTACTGGGCCACAGCTTGA 796

RESULT 12
 AA21085 ID AAP21085 standard; DNA; 1324 BP.
 XX AC AA21085;
 DT 14-MAR-2001 (first entry)
 XX DE Human low adenosine antisense oligonucleotide related sequence #2652.
 XX KW Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
 KW human; airway disorder; bronchoconstriction; lung inflammation;
 KW surfactant depletion; respiratory; bronchiodilator; antiinflammatory;
 KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
 KW respiratory obstruction; pulmonary obstruction; impaired respiration;
 KW surfactant hyoproduction; pulmonary vasoconstrictor; asthma; RDS;
 KW pulmonary hypertension; syndrome; pain; cystic fibrosis; allergic rhinitis;
 KW chronic obstructive pulmonary disease; pulmonary transplantation; refection;
 KW cancer; ss.
 XX OS Homo sapiens.
 XX PN WO20062736-A2.
 XX PD 26-OCT-2000.
 XX PF 24-MAR-2000; 2000HO-US08020.
 XX PR 06-APR-1999; 99US-0127958.
 XX PA (UYEC-) UNIV EAST CAROLINA.
 PA (NYCE/) NYCE J W.
 XX PI NYCE JW.
 XX DR WPI: 2000-679539/66.
 XX PT Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -

XX The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and/or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and antibodies, antibody receptors, transcription factors, cytokines and immunoglobulins and antibodies, antibody receptors, cytokine and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system peptide transmitters, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy (ies), and/or surfactant hyoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impaired respiration, respiratory distress syndrome (ARDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation, rejection, pulmonary infections, bronchitis, and/or cancer. AA1844 to AA1543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of the present invention.

XX SQ Sequence 1324 BP; 298 A; 387 C; 308 G; 331 T; 0 other;

Query Match Score 43; DB 21; Length 1324;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGGCTCCAGAACCTACTGGGCCACACTTGA 43
 Db 755 TCAAACTGGGCTCCAGAACCTACTGGGCCACACTTGA 797

RESULT 13
 AA34963 ID AAA34963 standard; DNA; 1324 BP.
 XX AC AA34963;
 DT 28-JUL-2000 (first entry)
 XX DB Human adenosine receptor related polynucleotide SEQ ID NO:2652.
 XX Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
 XX OS Homo sapiens.
 XX PN WO20000525-A2.
 XX PD 24-FEB-2000.
 XX PF 03-AUG-1999; 99WO-US17712.
 XX PR 03-AUG-1998; 98US-0095212.
 XX PA (UYEC-) UNIV EAST CAROLINA.
 XX Disclosure; Page 887; 1592PP; English.

PI Nyce JW;
 XX PR 26-FEB-1987; 87US-0019221.
 DR XX (CETU) CETUS CORP.
 XX PA
 XX New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or cancers -
 XX Disclosure: Page 814-815; 134pp; English.
 XX The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or antiinflammatory. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impaired airways, lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, Chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA2213 to AA35312 represent the nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 285, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1880 (AAA2233 to AAA3992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing.

SQ Sequence 1324 BP; 298 A; 387 C; 308 G; 331 T; 0 other;
 Query Match 100.0%; Score 43; DB 21; Length 1324;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TOAACTGGGCTCCGAACTCTGGGCCTACAGCTTGA 43

Db 755 TCAAACTGGGCTCCGAACTCTGGGCCTACAGCTTGA 797

RESULT 14
 AAN60557
 ID AAN60557 standard; DNA; 1585 BP.
 XX AC AAN60557;
 XX AC
 XX Key
 XX CDS 86..313
 XX FT /*tag= a
 XX DT 28-JUL-1991 (first entry)
 XX DE Sequence encoding mature human tumour necrosis factor (htNF) in pE4.
 XX KW Antitumour; anticancer; ss.
 XX OS Homo sapiens.
 XX PH
 XX PT 14-AUG-1986.
 XX PF 03-FEB-1986;
 XX PR 07-FEB-1985;
 XX PR 19-OCT-1982;
 XX PR 15-APR-1983;
 XX PR 20-DEC-1983;
 XX PR 15-OCT-1984;
 XX PR 07-FEB-1985;
 XX PA (CETU) CETUS CORP.
 XX Mark DF, Lin LS, Lu SDY, Wang AM;

PI PI 25-JAN-1988; 88WO-US00183.
 XX PP 07-SEP-1988.
 XX PR 07-FEB-1986;
 XX PR 03-FEB-1986;
 XX PR 07-FEB-1985;
 XX PR 19-OCT-1982;
 XX PR 15-APR-1983;
 XX PR 20-DEC-1983;
 XX PR 15-OCT-1984;
 XX PR 07-FEB-1985;
 XX PA (CETU) CETUS CORP.
 XX Mark DF, Lin LS, Lu SDY, Wang AM;

XX PR 26-FEB-1987; 87US-0019221.
 XX PA
 XX (CETU) CETUS CORP.
 XX Mark DF, Thomson JW, Lin LS, Yamamoto R;
 XX WPI; 1988-271165/38.
 DR P-PSDB; AAP0728.
 XX Human tumour necrosis factor mutants - having comparable biological activity with improved stability
 PT having comparable biological activity with improved stability
 PT and ease of purification
 XX Disclosure: Fig 1-1 to 1-2; 51pp; English.
 XX A human TNF Protein which is modified from the sequence shown in AAP80278 including naturally occurring allelic variants is claimed. Also claimed are: recombinant DNA sequences encoding the protein (AAN80219), and control sequences for expression; a vector; a transformed host cell; a method of producing the protein by culturing the host cell; pharmaceutical composition of the protein and a carrier and a method of treating tumour burden with the compsn. The mutants are capable of the range of biological activities exhibited by native TNF but exhibit improved stability and ease of purification.
 XX Sequence 1560 BP; 340 A; 473 C; 381 G; 366 T; 0 other;
 SQ Query Match 100.0%; Score 43; DB 9; Length 1566;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07; Mismatches 0; Indels 0; Gaps 0;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 TOAACTGGGCTCCGAACTCTGGGCCTACAGCTTGA 43
 Db 1007 TCAAACTGGGCTCCGAACTCTGGGCCTACAGCTTGA 1049

RESULT 15
 AAN60557
 ID AAN60557 standard; DNA; 1585 BP.
 XX AC AAN60557;
 XX AC
 XX Key
 XX CDS 86..313
 XX FT /*tag= a
 XX DT 28-JUL-1991 (first entry)
 XX DE Sequence encoding mature human tumour necrosis factor (htNF) in pE4.
 XX KW Antitumour; anticancer; ss.
 XX OS Homo sapiens.
 XX PH
 XX PT 14-AUG-1986.
 XX PF 03-FEB-1986;
 XX PR 07-FEB-1985;
 XX PR 19-OCT-1982;
 XX PR 15-APR-1983;
 XX PR 20-DEC-1983;
 XX PR 15-OCT-1984;
 XX PR 07-FEB-1985;
 XX PA (CETU) CETUS CORP.
 XX Mark DF, Lin LS, Lu SDY, Wang AM;

XX WPI; 1986-225458/34.
 DR E-PSDE; AA960655.
 XX New synthetic muteins of human tumour necrosis factor protein -
 PT are obt'd. by direct mutagenesis and retain antitumour activity
 XX Disclosure; Fig 1; 47pp; English.
 XX The sequence encoding TNF produced by the promyelocytic leukaemia
 CC cell line (HL-60, ATCC no. CCL240) has been cloned and expressed in
 CC E. coli (see AA960557). Neither of the cysteine residues (69 and 101) in
 CC the TNF sequence appears to be involved in disulphide linkages. The
 CC inventors claim a novel synthetic mutein of a biologically active
 CC TNF protein having at least one cysteine residue free from a
 CC disulphide link and non-essential to the activity and having at
 CC least one of the cysteine residues deleted or replaced by another AA.
 CC Plasmid pAW731 (Ser 69) is claimed.

XX Sequence 1585 BP; 352 A; 473 C; 389 G; 371 T; 0 other;

Query Match 100.0%; Score 43; DB 7; Length 1585;
 Best Local Similarity 100.0%; Pred. No. 3.4e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TGAACTGGGCCCTCGAAACTCACTGGGCCCTACAGCTTGA 43
Db	1007	TCAAACCTGGCCCTCGAAACTCACTGGGCCCTACAGCTTGA 1049

Search completed: February 3, 2004, 04:47:56
 Job time : 120.054 secs

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OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 04:34:02 ; Search time 2465.58 Seconds
(without alignments)

1025.182 Million cell updates/sec

Title: US-09-801-371A-1

Perfect score: 104

Sequence: 1 gaattcaactggggccccc.....ggttctggccagaatgtctgc 104

Scoring table: IDENTITY_NUC

Gapop 1.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST,*

1: em_estba:*

2: em_estbhum:*

3: em_estbin:*

4: em_estmu:*

5: em_estcov:*

6: em_estpl:*

7: em_estro:*

8: em_htco:*

9: gb_est1:*

10: gb_est2:*

11: gb_htco:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estfun:*

17: em_gbs_num:*

18: em_gbs_inv:*

19: em_gbs_pln:*

20: em_gbs_vrt:*

21: em_gbs_fun:*

22: em_gbs_mam:*

23: em_gbs_mut:*

24: em_gbs_pro:*

25: em_gbs_ror:*

26: em_gbs_phg:*

27: em_gbs_vt:*

28: gb_gbs1:*

29: gb_gbs2:*

RESULTS

RESULT 1

BX118951

LOCUS

BX118951 Soares_fetal_heart_Homo_sapiens_cdna_clone

DEFINITION

IMAGP9981124100 ; IMAGE1633595 mRNA sequence

ACCESSION

BX118951

VERSION

GI:27982696

KEYWORDS

BST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

COMMENT

1 (bases 1 to 474)

REFERENCE

Erbert,L., Heil,O., Henning,S., Neubert,P., Peters,M.,

Radek,U., Schneider,D. and Korn,B.

TITLE

Human Unigeneset - RZPD3

JOURNAL

Unpublished

COMMENT

RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH

TM Neuenheimer Feld 530, D-69120 Heidelberg, Germany

RZPD; IMAGP9981124100

RZPDLIB; I.M.A.G.E. cDNA Clone Collection;

Human Unigeneset - RZPD3 (RZPD3; RZPD No.972)

<http://www.rzpd.de/CloneCards/cgi-bin/showapl.cgi/response.libnum=972>

RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH

Heubnerweg 6, D-14059 Berlin, Germany

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Query

Description

BX118951 BX118951

CB528492 CB528492

CD370333 CD370333

CD367676 CD367676

100.0 100.0

100.0 100.0

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Tel: +49 30 32639 101
Fax: +49 30 32639 111

www.rzpd.de
This clone is available royalty-free from RZPD; contact RZPD (clone@rzpd.de) for further information. Seq primer M13R. Primer sequence: TTTCACAGGAACACTATAC.

Location/Qualifiers

```
1. -474
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon: 9606"
/clone="IMAG938Li21300" ; IMAGE:1693595"
```

```
sex="unknown"
/dev stage="19 weeks"
/lab host="Dilos (ampicillin resistant)"
```

```

/clone lib="Squares_fetal_heart_NBHH119W"
/notified="Organ heart; Vector; PT7T3D (Pharmacia) with a
modified Dolmenerker; Sire 1; Not T; Sire 2; ECO RT-1 sr

```

molecular ponytail, since not all oligo(dT) primer strand cDNA was primed with a Not I - oligo(dT) primer [1]. The cDNA was then digested with Sma I (overnight at 37°C), purified by phenol-chloroform extraction, and precipitated with ethanol.

double-stranded cDNA was size selected, ligated to Eco RI and cloned into adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pRPT3 vector

(Pharmacia). Library went through one round of normalization to a Cöt = 5. Library constructed by M. Fatima Bonaldo. This library was constructed from the

same fetus as the fetal lung library, Soares fetal lung NbHL19W. ^a

111 a 811 C 391 T 151 T 151

	Similarity	Score	DB 13;	Length	Gaps
0.04	100.0%	104;	5.5e-21;	474;	
0.04	Conservative	0;	Mismatches:	0;	Indels: 0;

5 GAATTCTAACTGGGCGCTCAGAACTCACTGGGGCTACAGCTTGTATCCCTGACATCTG 12

1	GAACTGGAGACCAGGGGACCCAGGCCCTTGGTTCTGGCCCAAGATGCTGC	104
5	GAACTGGAGACCAGGGGACCCAGGCCCTTGGTTCTGGCCCAAGATGCTGC	168

卷之三

EST 16-MAY-2000
linear

U1-H-FT2_bjd-e-20-0-UI⁸¹ NCI CGAP FT2 Homo sapiens cDNA Clone
U1-H-FT2_bjd-e-20-0-UI^{3'}, mRNA sequence.
CB528492

CB528492.1 GI:29388228
EST. Homo sapiens (human)

Homo sapiens (humans)

Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
1 to 630) (bases 1 to 11)
<http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

LIBRARY PROCUREMENT: Dr. Gary W. Huntington, U or I
CDNA LIBRARY PREPARATION: Dr. M. Bento Soares, University of Iowa
CDNA LIBRARY ARRAYED BY: Dr. M. Bento Soares, University of Iowa

DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution information can be found at
<http://genome.uiowa.edu/distribution/cmad.html>

The following repetitive elements were found in this cDNA sequence: 1-29, >AT-rich< complexity (matched compliment)

FEATURES	Source	POLYA=Yes	Location/Qualifiers
		1. .630	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606"
			/clone="UI-H-FT2-bjd-e-20-0-UI"
			/tissue_type="Aveolar Macrophage"
			/dev_stage="Adult"
			/lab_host="DH10B (Life Technologies)"
			/clone lib="NCI CGAP FT2"
			/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker, Site 1: Eco R I; Site 2: Not I; NCI CGAP FT2 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was subtracted according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Kuninagle of the University of Iowa."
			/TAG_LIB="UI-H-FT2"
			/TAG_SEQ="GGCCATGCGC"
BASE COUNT		180 a	137 c 139 g 174 t
ORIGIN			
			Query Match 100.0% Score 104; DB 14; Length 630; Best Local Similarity 100.0% Pred. No. 6.2e-21; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy	1	GAATTCAACTGGGCCCTCCAGACTCTGGGCCCTAACGTTTATCCCTGACATCTG	60
Db	503	GAATTCAACTGGGCCCTCCAGACTCTGGGCCCTAACGTTTATCCCTGACATCTG	444
Qy	61	GAATCTGGAGACCGGGACCGCTTGGTTCTGGCCAGATGTGTC	104
Db	443	GAATCTGGAGACCGGGACCGCTTGGTTCTGGCCAGATGTGTC	400
RESULT	3		
LOCUS	CD370363/c	645 bp	mRNA linear EST 29-MAY-2003
DEFINITION	UI-H-FT2-bkb-n-03-0-UI-81	NCI CGAP FT1 Homo sapiens cDNA clone	
ACCESSION	CD370363	1 (bases 1 to 645)	UI-H-FT1-bkb-n-03-0-UI 3', mRNA sequence.
VERSION	CD370363.1	GI:311154453	
KEYWORDS	EST.		NCBI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
SOURCE	Homo sapiens (human)		National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Buthidae; Primates; Catarrhini; Homidae; Homo.		Unpublished
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgbabs@mail.nih.gov		Tissue Procurement: Dr. Gary W. Kuninagle, U of I cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa cDNA Library Arrived by: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Distribution information can be found at http://genome.uiowa.edu/distribution/cgap.html The following repetitive elements were found in this cDNA sequence: 294-368, >(TAAAn)5#simple_repeat
POLYA=Yes			Seq primer: M13 FORWARD
FEATURES	Source	POLYA=Yes	Location/Qualifiers
		1. .645	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606"
			/clone="UI-H-FT1-bkb-n-03-0-UI"

/tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DHIOB (Life Technologies)"
 /clone_lib="NCI_CGAP_F11"
 /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified PolyLinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP_F11 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCATGGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG LIB=II-H-F11
 TAG TISSUE=Human Lung Aveolar Macrophage
 TAG SEQ=GGCCATGGCG"

BASE COUNT	191 a	-145 c	144 g	165 t
ORIGIN				
Query Match	100.0%	Score 104;	DB 14;	Length 645;
Best Local Similarity	100.0%	Pred. No. 6.3e-21;		
Matches 104;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1 GAATTCAACTGGGCCCTCAGAACCTACGGGGCTAACGCTTGATCCGTGATCGTGC 60			
Db	592 GAATTCAAACTGGGCCCTCAGAACCTACGGGGCTAACGCTTGATCCGTGATCGTGC 533			
Qy	61 GAATCTGGAGAACCCAGGGAGCTTGGCTGGCCGAATGCTGC 104			
Db	532 GAATCTGGAGAACCCAGGGAGCTTGGCTGGCCGAATGCTGC 489			

RESULT 4
 CD367676/c
 LOCUS CD367676
 DEFINITION UI-H-F11-bj1-14-0-UI_81 NCI_CGAP_F11 Homo sapiens mRNA clone
 .
 ACCESSION CD367676
 VERSION 1 GI:31151766
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Bucleostomi;
 Mammalia; Eutheria; Primates; Catarrini; Hominidae; Homo.
 1 (bases 1 to 688)
 REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 AUTHORS NCI-Gene Index
 TITLE Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps-r@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunninghake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uiowa.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA
 sequence: 69-143 (TATA)nSimple_repeat
 Seq Primer: M13 FORWARD
 POLYA=ties
 FEATURES Location/Qualifiers
 1. . 688
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9006"

/mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-H-FT1-bhu-n-04-0-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adapter, digested with Not I, and cloned directionally into the PT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dR)18 tail. The sequence tag for this library is GCCCCATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG_LIB=UI-H-FT1
 TAG_TISSUE=Human Lung Aveolar Macrophage
 TAG_SEQ=GCCCCATGCCG"
 BASE COUNT 198 a 155 c 160 g 181 t 2 others
 ORIGIN
 Query Match 100.0%; Score 104; DB 14; Length 699;
 Best Local Similarity 100.0%; Pred. No. 6.5e-21; Mismatches 0; Indels 0; Gaps 0;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 60
 Db 594 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 535
 RESULT 7
 CD368142/C
 LOCUS CD368142.2
 DEFINITION UI-H-FT1-bbv-e-20-0-UI_81 NCI CGAP FT1 Homo sapiens cDNA clone
 ORGANISM Homo sapiens
 TISSUE mRNA
 SOURCE Human
 COMMENT Unpublished
 CONTACT Robert Strausberg, Ph.D.
 Email: cgbps@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunninghake, U of I
 DNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at http://genome.uiowa.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA sequence: 298-72, >(TAAT)n\$Simple_repeat
 Seq primer: M13 FORWARD
 POLYA=Yes
 FEATURES
 Source
 /organism="Homo sapiens"
 /mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-H-FT1-bbv-e-20-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FT2 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was subtracted according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG_LIB=UI-H-FT2
 TAG_TISSUE=Human Lung Aveolar Macrophage
 TAG_SEQ=GCCCCATGCCG"
 BASE COUNT 200 a 157 c 160 g 182 t
 ORIGIN
 Query Match 100.0%; Score 104; DB 14; Length 699;
 Best Local Similarity 100.0%; Pred. No. 6.5e-21; Mismatches 0; Indels 0; Gaps 0;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 60
 Db 594 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 535
 RESULT 7
 CD368142/C
 LOCUS CD368142.2
 DEFINITION UI-H-FT1-bbv-e-20-0-UI_81 NCI CGAP FT1 Homo sapiens cDNA clone
 ORGANISM Homo sapiens
 TISSUE mRNA
 SOURCE Human
 COMMENT Unpublished
 CONTACT Robert Strausberg, Ph.D.
 Email: cgbps@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunninghake, U of I
 DNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at http://genome.uiowa.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA sequence: 298-72, >(TAAT)n\$Simple_repeat
 Seq primer: M13 FORWARD
 POLYA=Yes
 FEATURES
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-H-FT1-bbv-e-20-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FT3 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
 TAG_LIB=UI-H-FT3
 TAG_TISSUE=Human Lung Aveolar Macrophage
 TAG_SEQ=GCCCCATGCCG"
 BASE COUNT 200 a 157 c 160 g 182 t
 ORIGIN
 Query Match 100.0%; Score 104; DB 14; Length 699;
 Best Local Similarity 100.0%; Pred. No. 6.5e-21; Mismatches 0; Indels 0; Gaps 0;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 60
 Db 594 GAATTCAACTGGGCCAGAACTCACTGGGCCATACAGCTTNGATCCGTGACATCTG 535
 RESULT 7
 CD364761/C
 LOCUS CD364761.2
 DEFINITION UI-H-FT2-bjm-j-11-0-UI_81 NCI CGAP FT2 Homo sapiens cDNA clone
 ORGANISM Homo sapiens
 TISSUE mRNA
 SOURCE Human
 COMMENT Unpublished
 CONTACT Robert Strausberg, Ph.D.
 Email: cgbps@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Hunninghake, U of I
 DNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at http://genome.uiowa.edu/distribution/cgap.html
 The following repetitive elements were found in this cDNA sequence: 296-370, >(TAAT)n\$Simple_repeat
 Seq primer: M13 FORWARD
 POLYA=Yes
 FEATURES
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-H-FT2-bjm-j-11-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"

/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP PT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCGATGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG LIB=UI-H-PT1
TAG TISSUE=Human Lung Alveolar Macrophage
TAG SEQ=GGCCATGCG"

BASE COUNT 197 a 158 c 161 g 185 t 2 others

Query Match 100.0%; Score 104; DB 14; Length 703;
Best Local Similarity 100.0%; Pred. No. 6.5e-21;
Matches 104; Conservative 0; Mismatches 0; Gaps 0;
Indels 0; Gaps 0;

Qy 1 GAATTCAAACCTGGGCCCTCCAGAACTCACTGGGCCCTACAGCTTGATCCCTGACATCTG 60
Db 596 GATTCAAATGGGCCCTCAGAACATCTGGGCCCTACAGCTTGATCCCTGACATCTG 537

Qy 61 GAATCTGGAGACAGGGAGCTTGTTCTGCTG3CCGAGATGCTGC 104
Db 536 GAATCTGGAGACAGGGAGCTTGTTCTGCTG3CCGAGATGCTGC 493

RESULT 8
CA308256 CA308256 713 bp mRNA linear EST 01-NOV-2002
DEFINITION UI-H-PT1-bhy-e-14-0-UI .81 NCI CGAP PT1 Homo sapiens CDNA clone
ACCESSION CA308256
VERSION EST.
KEYWORDS Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 713)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished
COMMENT Contact: Robert Strauberg, Ph.D.
Email: cgaps@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
Sequence: 296-370, >TAAA)n#Simple_repeat
Seq primer: M13 FORWARD
POLYA=yes.

FEATURES Source
Location/Qualifiers 1. .713
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:3606"
/clone="UI-H-PT1-bhy-e-14-0-UI"
/tissue type="Alveolar Macrophage"
/dev_stage="Adult"
/lab_host="DHIB (Life Technologies)"
/dev_stage="Adult"
/dev_stage="Adult"

/clone lib="NCI CGAP PT1"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP PT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCGATGCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.
TAG LIB=UI-H-PT1
TAG TISSUE=Human Lung Alveolar Macrophage
TAG SEQ=GGCCATGCG"

BASE COUNT 203 a 164 c 161 g 184 t 1 others

ORIGIN

Query Match 100.0%; Score 104; DB 14; Length 713;
Best Local Similarity 100.0%; Pred. No. 6.5e-21;
Matches 104; Conservative 0; Mismatches 0; Gaps 0;
Indels 0; Gaps 0;

Qy 1 GAATTCAAACCTGGGCCCTCCAGAACTCACTGGGCCCTACAGCTTGATCCCTGACATCTG 60
Db 594 GAATTCAAATGGGCCCTCAGAACATCTGGGCCCTACAGCTTGATCCCTGACATCTG 535

Qy 61 GAATCTGGAGACAGGGAGCTTGTTCTGCTG3CCGAGATGCTGC 104
Db 534 GAATCTGGAGACAGGGAGCTTGTTCTGCTG3CCGAGATGCTGC 491

RESULT 9
CB528694/c CB528694/c 719 bp mRNA linear EST 16-MAY-2003
LOCUS U-H-PT2-bjd-1-22-0-UI .81 NCI CGAP PT2 Homo sapiens CDNA clone
DEFINITION U-H-PT2-bjd-1-22-0-UI .81 mRNA sequence.
ACCESSION CB528694
VERSION CB528694.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
COMMENT Unpublished
Contact: Robert Strauberg, Ph.D.
Email: cgaps@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution information can be found at
http://Genome.uiowa.edu/distribution/cgap.html
The following repetitive elements were found in this cDNA
Sequence: 294-366, >TAAA)n#Simple_repeat
Seq primer: M13 FORWARD
POLYA=yes.
FEATURES Source
Location/Qualifiers 1. .719
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:3606"
/clone="UI-H-PT2-bjd-1-22-0-UI"
/tissue type="Alveolar Macrophage"
/dev_stage="Adult"
/lab_host="DHIB (Life Technologies)"
/dev_stage="Adult"

/lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FT1 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was subtracted according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Runninghake of the University of Iowa.
 TAG_LIB=UI-H-FT1
 TAG_TISSUE=Human Lung Alveolar Macrophage
 TAG_SEQ=GCCCCATCGC"

BASE COUNT	BASE COUNT	ORIGIN
203 a	204 a	2 others
163 c	162 c	
163 g	164 g	
188 t	190 t	
2 others	2 others	

Query Match 100.0%; Score 104; DB 14; Length 719;
 Best Local Similarity 100.0%; Pred. No. 6.6e-21;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy   1 GAACTCAAACTGGCCCTCAGAACACTGGGCTACAGCTTGATCCGTGACATCTG 60
Db   592 GAACTCAAACTGGCCCTCAGAACACTGGGCTACAGCTTGATCCGTGACATCTG 533
Qy   61 GAACTGGAGACAGGAGCCTTGGTTCTGCCAGAATGTC 104
Db   532 GAACTGGAGACAGGAGCCTTGGCTCTGCCAGAATGTC 492

```

RESULT 10
 BQ007008/C BQ007008 722 bp mRNA linear EST 26-MAR-2002
 LOCUS BQ007008-01 NCI CGAP_FT1 Homo sapiens cDNA clone
 DEFINITION IMAGE:5846517 3', mRNA sequence.
 ACCESSION BQ007008
 VERSION G:19731908
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 TITLE Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbsr@mail.nih.gov
 Tissue Procurement: Dr. Jose Mercuende
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Clone distribution information can be found through the I.M.A.G.E. Consortium/LINN at: http://image.llnl.gov
 The following repetitive elements were found in this cDNA
 sequence: 297-371, >(TAAA)n#Simple_repeat
 Seq primer: M13 FORWARD
 POLY=A:Yes

FEATURES source
 Location/Qualifiers
 1. .722
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5846517"
 /tissue="Lung; Vector: PT7T3-Pac (Pharmacia)"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Left Pelvis; Vector: PT7T3-Pac (Pharmacia)"
 with a modified polylinker; Site 1: EcoR I; Site 2: Not I;
 NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome

Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into PT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT18 tail). The sequence tag for this library is ACATGAC.

TAG_LIB=UI-H-FT1

TAG_TISSUE=chondrosarcoma

TAG_SEQ=ACATGAC"

BASE COUNT 204 a
 ORIGIN 2 others

Query Match 100.0%; Score 104; DB 12; Length 722;

Best Local Similarity 100.0%; Pred. No. 6.6e-21;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy   1 GAATTCAAACCTGGCCCTCAGAACACTGGGCTACAGCTTGATCCGTGACATCTG 60
Db   595 GAATTCAAACCTGGCCCTCAGAACACTGGGCTACAGCTTGATCCGTGACATCTG 536
Qy   61 GAACTCTGGAGACAGGAGCCTTGGTTCTGCCAGAATGTC 104
Db   535 GAACTCTGGAGACAGGAGCCTTGGTTCTGCCAGAATGTC 492

```

RESULT 11

CA307062/c CA307062-bhu-o-04-0-UI-81 NCI CGAP_FT1 Homo sapiens cDNA clone
 LOCUS CA307062-bhu-o-04-0-UI-81
 DEFINITION UI-H-FT1-bhu-o-04-0-UI 3', mRNA sequence.
 ACCESSION CA307062
 VERSION G:24470116
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 REFERENCE 1(bases 1 to 722)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbsr@mail.nih.gov
 Tissue Procurement: Dr. Gary W. Runninghake, U of I
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
 The following repetitive elements were found in this cDNA
 sequence: 295-369, >(TAAA)n#Simple_repeat
 Seq primer: M13 FORWARD
 POLY=A:Yes

FEATURES source

Location/Qualifiers

1. .722

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT1-bhu-o-04-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NCI CGAP FT1"
/note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome
```

REVIEWER
 /db_xref="taxon:9606"
 /clone="UI-H-FT1-bhu-o-04-0-UI"
 /tissue_type="Aveolar Macrophage"
 /dev_stage="adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP FT1"
 /note="Organ: Lung; Vector: PT7T3-Pac (Pharmacia)"
 with a modified polylinker; Site 1: EcoR I; Site 2: Not I;
 NCI CGAP FT1 is a normalized cDNA library containing the following tissue(s): Chondrosarcoma. The library was constructed according to Bonaldo, Lennon and Soares, Genome

Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pTR73-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCRGGCC. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa.

TAG_LIB=UT-H-FT1
TAG_TISSUE=Human Lung Aveolar Macrophage
TAG_SEQ=GCCCCATGCGC"

BASE COUNT ORIGIN 203 a -165 c 163 g 189 t 2 others

Query Match Score 100 %; Score 104; DB 14; Length 722;
Best Local Similarity 100.0%; Pred. No. 6.6e-21;
Matches 104; Conservative 0; M-matches 0; Gaps 0;

Qy 1 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 60
Db 593 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 534

RESULT 13
LOCUS CD364988
DEFINITION UI-B-FT2-bjn-c-04-0-UI_51 NCI CGAP FT2 Homo sapiens cDNA clone
VERSION CD364988
ACCESION CD364988.1 GI:31149078
KEYWORDS EST
ORGANISM Homo sapiens (human)
SOURCE Eukaryota; Mammalia; Bacteria; Primates; Homo sapiens

COMMENT Unpublished
Contract: Robert Strauberg, Ph.D.
Email: cgapsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Huntingtonake, U of I
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
Sequence: 291-371, >(TAA)n#Simple_repeat
Seq. Primer: M13 FORWARD
POLY=A=Yes.

FEATURES Source
REFERENCE 1. (bases 1 to 722)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

JOURNAL
COMMENT Contract: Robert Strauberg, Ph.D.
Email: cgapsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Huntingtonake, U of I
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution information can be found at
<http://genome.uiowa.edu/distribution/cgap.html>
The following repetitive elements were found in this cDNA
Sequence: 291-371, >(TAA)n#Simple_repeat
Seq. Primer: M13 FORWARD
POLY=A=Yes.

FEATURES Source
REFERENCE 1. 722
ORGANISM "Homo sapiens"
MOLECULAR_TYPE="mRNA"
DB_XREF="taxon:9606"
CLOVE="UT-H-FT2-bjn-c-04-0-UI"
TISSUE="Aveolar Macrophage"
DEV_STAGE="Adult"
LAB_HOST="DHIOB (Life Technologies)"
CLOVE_LIB="NCI CGAP FT1"
NOTE="Organ: Lung; Vector: PT73-Pac (Pharmacia) with a modified polyclinker, Site 1: EcoR I, Site 2: Not I; NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pTR73-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCRGGCC. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa."
CLOVE_PRIMER="M13 FORWARD"
TISSUE_TYPE="Aveolar Macrophage"
DEV_STAGE="adult"
CLOVE_HOST="DHIOB (Life Technologies)"
CLOVE_LIB="NCI CGAP FT1"
NOTE="Organ: Lung; Vector: PT73-Pac (Pharmacia) with a modified polyclinker, Site 1: EcoR I, Site 2: Not I; NCI CGAP FT2 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pTR73-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCRGGCC. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa."

subtracted according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa.

TAG_LIB=UT-H-FT2
TAG_TISSUE=Human Lung Aveolar Macrophage

TAG_SEQ=GCCCCATGCGC"

BASE COUNT ORIGIN 201 a -166 c 163 g- 190 t 2 others

Query Match Score 100.0%; Score 104; DB 14; Length 722;
Best Local Similarity 100.0%; Pred. No. 6.6e-21;
Matches 104; Conservative 0; M-matches 0; Gaps 0;

Qy 1 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 60
Db 595 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 536

Query Match Score 100 %; Score 104; DB 14; Length 722;
Best Local Similarity 100.0%; Pred. No. 6.6e-21;
Matches 104; Conservative 0; M-matches 0; Gaps 0;

Qy 1 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 60
Db 535 GAACTCAAACGGGCTCCAGAACACTCACGGGCTACAGCTTGATCCGTGACATCTG 492

RESULT 14
LOCUS CA308777
DEFINITION CA308777-0-UI s1 NCI CGAP FT1 Homo sapiens mRNA linear EST 01-NOV-2002
DEFINITION UI-H-FT1-bhy-b-23-0-UI s1 NCI CGAP FT1 Homo sapiens cDNA clone
ACCESSION CA308777
VERSION CA308777.1
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 723)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL
COMMENT Unpublished
Contract: Robert Strauberg, Ph.D.
Email: cgapsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Huntingtonake, U of I
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
Sequence: 291-371, >(TAA)n#Simple_repeat
Seq. Primer: M13 FORWARD
POLY=A=Yes.

LOCATION/QUALIFIERS
1. 723
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/db_kref="taxon:9606"
/clone="UT-H-FT1-bhy-b-23-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="adult"
/lab_host="DHIOB (Life Technologies)"
/clone_lib="NCI CGAP FT1"
/note="Organ: Lung; Vector: PT73-Pac (Pharmacia) with a modified polyclinker, Site 1: EcoR I, Site 2: Not I; NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pTR73-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCRGGCC. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa."

FEATURES Source
REFERENCE 1. 722
ORGANISM "Homo sapiens"
MOLECULAR_TYPE="mRNA"
DB_XREF="taxon:9606"
CLOVE="UT-H-FT2-bjn-c-04-0-UI"
TISSUE="Aveolar Macrophage"
DEV_STAGE="Adult"
LAB_HOST="DHIOB (Life Technologies)"
CLOVE_LIB="NCI CGAP FT2"
NOTE="Organ: Lung; Vector: PT73-Pac (Pharmacia) with a modified polyclinker, Site 1: EcoR I, Site 2: Not I; NCI CGAP FT2 is a subtracted cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lemmon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pTR73-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCRGGCC. The tissue was provided by Dr. Gary W. Huntingtonake of the University of Iowa."

sequence that is located between the Not I site and the (d)T18 tail. The sequence tag for this library is GGCCATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG LIB=UI-H-FT1

TAG TISSUE=Human Lung Aveolar Macrophage

TAG SEQ=GCCCCATGCCG"

203 a -164 c 164 g 191 t 1 others

Query Match Score 100.0%; Score 104; DB 14; Length 723; Best Local Similarity 100.0%; Pred. No. 6.6e-21; Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAACTGGGGCTCCAGAACATTCACACTGGGGCTACAGCTTGATCCGTGACATCTG 60
Db 595 GAATTCAAACTGGGGCTCCAGAACATTCACACTGGGGCTACAGCTTGATCCGTGACATCTG 536

Qy 61 GAATCTGGAGACAGGGAGCCTTGTGTTCTGGCCAGAATGCTGC 104
Db 535 GAATCTGGAGACAGGGAGCCTTGTGTTCTGGCCAGAATGCTGC 492

RESULT 14

CD368116 LOCUS CD368116 723 bp mRNA linear EST 29-MAY-2003 DEFINITION UI-H-FT1-bjv-a-04-0-UI .s1 NCI CGAP FT1 Homo sapiens cDNA clone mRNA sequence.

ACCESSION CD368116 EST. GI:31152206
KEYWORDS SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 723)

REFERENCE NCI-GAP http://www.ncbi.nlm.nih.gov/ncigap.
AUTHORS TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution information can be found at
<http://genome.uiowa.edu/distribution/cgap.html>
The following repetitive elements were found in this cDNA
Seq. Primer: 297-371, >(TAA)nSimple_repeat
Seq. Primer: M13 FORWARD
POLY=A:Yes

FEATURES source

Location/Qualifiers 1. .723 /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT1-bjv-a-04-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="Adult"
/lab_host="DHIOB (Life Technologies)"
/clone="UI-H-FT1-bjv-a-04-0-UI"
/note="Organ: Lung; Vector: PT7T3 Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I;
NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into PT7T3-Pac vector. The oligonucleotide used to prime the

synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.

TAG LIB=UI-H-FT1

TAG TISSUE=Human Lung Aveolar Macrophage

TAG SEQ=GCCCCATGCCG"

BASE COUNT ORIGIN 205 a -164 c 164 g 190 t

BASE COUNT ORIGIN 205 a -164 c 164 g 190 t

Query Match Score 100.0%; Score 104; DB 14; Length 723; Best Local Similarity 100.0%; Pred. No. 6.6e-21; Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAACTGGGGCTCCAGAACATTCACACTGGGGCTACAGCTTGATCCGTGACATCTG 60
Db 595 GAATTCAAACTGGGGCTCCAGAACATTCACACTGGGGCTACAGCTTGATCCGTGACATCTG 536

Qy 61 GAATCTGGAGACAGGGAGCCTTGTGTTCTGGCCAGAATGCTGC 104
Db 535 GAATCTGGAGACAGGGAGCCTTGTGTTCTGGCCAGAATGCTGC 492

RESULT 15

CA309711 LOCUS CA309711-bic-b-17-0-UI .s1 NCI CGAP FT1 Homo sapiens cDNA clone DEFINITION UI-H-FT1-bic-b-17-0-UI 3', mRNA sequence.

ACCESSION CA309711 VERSION CA309711.1 GI:24472765
EST. KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 724)

REFERENCE 1
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncigap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapsr@mail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
DNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
Sequence: 297-371, >(TAA)nSimple_repeat
Seq. Primer: M13 FORWARD
POLY=A:Yes

FEATURES source

Location/Qualifiers 1. .724 /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-FT1-bic-b-17-0-UI"
/tissue_type="Aveolar Macrophage"
/dev_stage="Adult"
/lab_host="DHIOB (Life Technologies)"
/clone="UI-H-FT1-bic-b-17-0-UI"
/note="Organ: Lung; Vector: PT7T3 Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I;
NCI CGAP FT1 is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into

pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGCCATGCCG. The tissue was provided by Dr. Gary W. Huntington of the University of Iowa.

TAG LIB=UI-H-PR1

TAG TISSUE=Human Lung Alveolar Macrophage

TAG PRO=GGCCATGCCG"

BASE COUNT 203 a 166 c 164 g 190 t 1 others

ORIGIN

	Query Match	Score	DB	Length
Qy	1	100.0%	104;	DB 14; Length 724;
Db	595	100.0%	Fred. No. 6.6e-21;	
Qy	61	100.0%	0;	Mismatches 0; Indels 0; Gaps 0;
Db	535	100.0%	0;	

```

1 GAACTCAAACTGGGCTCCAAACTCAACTGCGCTTACAGCTTGATCCCTGACATCTG 60
595 GAACTCAAACTGGGCTCCAAACTCAACTGCGCTTACAGCTTGATCCCTGACATCTG 536
Qy   61 GAACTCGAGAACGAGGAGCCGGTTCGGTTCTGCCAGAATGTGC 104
Db   535 GAACTCGAGAACGAGGAGCCGGTTCGGTTCTGCCAGAATGTGC 492

```

Search completed: February 3, 2004, 06:12:17

Job time : 2472.58 secs

GenCore version 5.1.6
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

OM nucleic - nucleic search, using sw model
Run on: February 3, 2004, 03:36:36 ; Search time 450.769 Seconds
(without alignments)
390.2.476 Million cell updates/sec

Title: US-09-801-371A-2
Perfect score: 43
Sequence: 1 tcaactggggctccagaa.....actggggctacagtttga 43

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:
1: gb_ba:/*
2: gb_htg:/*
3: gb_in:/*
4: gb_on:/*
5: gb_or:/*
6: gb_pat:/*
7: gb_ph:/*
8: gb_Pt:/*
9: gb_pr:/*
10: gb_rc:/*
11: gb_sts:/*
12: gb_sy:/*
13: gb_an:/*
14: gb_vl:/*
15: em_ba:/*
16: em_fun:/*
17: em_hm:/*
18: em_in:/*
19: em_mu:/*
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21: em_or:/*
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27: em_bs:/*
28: em_yi:/*
29: em_hg_hum:/*
30: em_hg_inv:/*
31: em_hg_other:/*
32: em_hg_mus:/*
33: em_hg_pnt:/*
34: em_hg_rnd:/*
35: em_hg_mam:/*
36: em_hg_vrt:/*
37: em_sy:/*
38: em_htgo_hum:/*
39: em_htgo_mus:/*
40: em_htgo_other:/*

Result No.	Score	Query	Match	Length	DB	ID	Description
1	43	100.0	400	11	SHGC-11-076	G13333	AR300453 Sequence
2	43	100.0	787	6	BD070551	BD070551	Self-regu
3	43	100.0	787	6	BD137681	BD137681	Self-regu
4	43	100.0	817	6	A16444	A16444	Xno-PstI fr
5	43	100.0	817	6	E02109	E02109	DNA sequenc
6	43	100.0	1047	9	HSA249755	HSA249755	Homo sapi
7	43	100.0	1047	9	A108430	A108430	Sequence 5
8	43	100.0	1275	6	I07953	I07953	Sequence 6
9	43	100.0	1323	6	E00702	E00702	cDNA encodi
10	43	100.0	1324	6	I03610	I03610	Sequence 2
11	43	100.0	1334	6	M3592	M3592	Synthetic h
12	43	100.0	1379	12	SYNTNTRP	SYNTNTRP	Sequence 2
13	43	100.0	1465	6	I04244	I04244	Sequence 2
14	43	100.0	1560	6	I08863	I08863	Sequence 3
15	43	100.0	1585	6	A37272	A37272	Sequence 12
16	43	100.0	1585	6	I04169	I04169	Sequence 1
17	43	100.0	1585	6	I04198	I04198	Sequence 1
18	43	100.0	1585	6	I08384	I08384	Sequence 5
19	43	100.0	1585	6	I08429	I08429	Sequence 3
20	43	100.0	1585	9	HUMTNPA	HUMTNPA	M1098 Human tumor
21	43	100.0	1606	6	I07541	I07541	Sequence 22
22	43	100.0	1643	6	ARI46199	ARI46199	Sequence
23	43	100.0	1643	9	X0134	X0134	Human mRNA
24	43	100.0	1676	9	BC02148	BC02148	Homo sapi
25	43	100.0	2270	6	AR300459	AR300459	Sequence
26	43	100.0	2270	6	BD137687	BD137687	Self-regu
27	43	100.0	2570	6	AR300460	AR300460	Sequence
28	43	100.0	2570	6	BD137688	BD137688	Self-regu
29	43	100.0	3103	9	HOMTNFX	HOMTNFX	M2631 Human tumor
30	43	100.0	3634	6	AR100270	AR100270	Sequence
31	43	100.0	3634	6	AR149935	AR149935	Sequence
32	43	100.0	3634	6	BD064008	BD064008	Novel exp
33	43	100.0	3634	9	HSTNFA	HSTNFA	X02910 Human gene
34	43	100.0	4830	9	AY0666019	AY0666019	Homo sapi
35	43	100.0	6974	9	AB088112	AB088112	Homo sapi
36	43	100.0	7112	6	AX100950	AX100950	Sequence
37	43	100.0	7112	6	XK100965	XK100965	Sequence
38	43	100.0	7112	9	HUMTNAB	HUMTNAB	M1641 Human tumor
39	43	100.0	7240	9	AY214167	AY214167	Sequence
40	43	100.0	16310	9	HSTNFBX	HSTNFBX	Z15056 Homo sapien
41	43	100.0	4016	9	BX248519	BX248519	Human DNA
42	43	100.0	61358	9	AL92587	AL92587	Human DNA
43	43	100.0	83800	9	ESY14768	ESY14768	Homo sapien
44	43	100.0	100000	9	AP000505	AP000505	Alu
45	43	100.0	132330	9	AL662801	AL662801	Human DNA

ALIGNMENTS

RESULT 1	G13333	LOCUS	SHGC-11-076	Human	STS 30-MAR-2000
DEFINITION					linear sequence tagged site.
ACCESSION	G13333				
VERSION	G13333.1				
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;					
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;					
REFERENCE	Olivier M. and Cox, D.R.				
AUTHORS	Olivier M. and Cox, D.R.				
TITLE	Unpublished				
JOURNAL	Unpublished (2000)				

Pred. No. is the number of results predicted by chance to have a

COMMENT

Contact: Michael Olivier, David R. Cox
 Stanford Human Genome Center
 Stanford University School of Medicine
 2000 Miranda Ave, 2nd Fl., Palo Alto, CA 94025, USA
 Tel: (650) 320-5800
 Fax: (650) 320-5801
 Email: olivier@hgc.stanford.edu
 Primer A: CACTAGAACTCAACTGGGCC
 Primer B: GAGGAGGCCAACGTCAC
 STS size: 166
 PCR Profile:

Initial incubation: 94 degrees C for 90 seconds

Denaturation: 94 degrees C for 15 seconds

Annealing: 62 degrees C for 23 seconds

Polymerization: 72 degrees C for 30 seconds

PCR Cycles: 30

Thermal Cycler: Perkin Elmer 9600

Template: 25 ng

Primer: each 1 uM

dNTPs: each 200 uM

Tag Polymerase: 0.05 units/uL

Total Vol: 10 uL

Buffer:

MgCl2: 2.5 mM

KCl: 50 mM

Tris-HCl: 20 mM

pH: 8.3

Prepared with Primer Pairs derived from M10988 -- Unigene.

Location/Qualifiers

1..440

/organism="Homo Sapiens"

/mol_type="Genomic DNA"

/db_xref="Taxon:19606"

/map="6"

/clone_id="Unassigned"

/clone_lib="Human"

SRS

210..375

primer_bind

primer_bind complement (356..375)

120 C 87 g 89 t

BASE COUNT

104 a 204 c 172 g 221 t

ORIGIN

Query Match 100.0%; Score 43; DB 6; Length 400;

Best Local Similarity 100.0%; Pred. No. 6.6e-07;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 43

Ds 220 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 262

RESULT 2

AR300453 AR300453 Sequence 7 from patent US 6537784.

DEBTINITION AR300453 Self-regulated apoptosis of inflammatory cells by gene therapy

ACCESSION AR300453.1 GI:31687895

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 787)

AUTHORS Tatsuta,R.J., Marlin,S.D. and Barton,R.W.

TITLE Self-regulated apoptosis of inflammatory cells by gene therapy

JOURNAL Patent: US 6537784-A 7 25-MAR-2003;

FEATURES Location/Qualifiers

1..787 /organism="Unknown"

BASE COUNT 190 a 204 c 172 g 221 t

ORIGIN

Query Match 100.0%; Score 43; DB 6; Length 787;

Best Local Similarity 100.0%; Pred. No. 6.3e-07;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 43

Ds 226 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 268

RESULT 3

BD070551

LOCUS BD070551

DEFINITION Self-regulated apoptosis of inflammatory cells by gene therapy

ACCESSION BD070551

VERSION GI:22616154

KEYWORDS JP 2001516210-A/13,

SOURCE unidentified

ORGANISM unclassified.

REFERENCE 1 (bases 1 to 787)

AUTHORS Tatsuta,R.J., Marlin,S.D. and Barton,R.W.

TITLE Self-regulated apoptosis of inflammatory cells by gene therapy

JOURNAL Patent: JP 2001516210-A 13 25-SEP-2001;

COMMENT OS Unidentified

COMMENT

Stanford Human Genome Center
 Stanford University School of Medicine
 2000 Miranda Ave, 2nd Fl., Palo Alto, CA 94025, USA
 Tel: (650) 320-5800
 Fax: (650) 320-5801
 Email: olivier@hgc.stanford.edu
 Primer A: CACTAGAACTCAACTGGGCC
 Primer B: GAGGAGGCCAACGTCAC

STS size: 166
 PCR Profile:
 Initial incubation: 94 degrees C for 90 seconds

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Annealing: 62 degrees C for 23 seconds

Polymerization: 72 degrees C for 30 seconds

PCR Cycles: 30

Thermal Cycler: Perkin Elmer 9600

Template: 25 ng

Primer: each 1 uM

dNTPs: each 200 uM

Tag Polymerase: 0.05 units/uL

Total Vol: 10 uL

Buffer:

MgCl2: 2.5 mM

KCl: 50 mM

Tris-HCl: 20 mM

pH: 8.3

Prepared with Primer Pairs derived from M10988 -- Unigene.
 Location/Qualifiers

1..440

/organism="Homo Sapiens"

/mol_type="Genomic DNA"

/db_xref="Taxon:19606"

/map="6"

/clone_id="Unassigned"

/clone_lib="Human"

SRS

210..375

primer_bind

primer_bind complement (356..375)

120 C 87 g 89 t

BASE COUNT

104 a 204 c 172 g 221 t

ORIGIN

Query Match 100.0%; Score 43; DB 6; Length 787;

Best Local Similarity 100.0%; Pred. No. 6.3e-07;

Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 43

Ds 220 TCAAACTGGCCCTCCAGAACTCACTGGGCTACAGCTTGA 262

RESULT 4

BD137681 BD137681

LOCUS BD137681

DEFINITION Self-regulated apoptosis of inflammatory cells by gene therapy

ACCESSION BD137681

VERSION GI:23232626

KEYWORDS JP 200050381-A/7.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Buteraria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 787)

AUTHORS Tatsuta,R.J., Marlin,S.D. and Barton,R.W.

TITLE Self-regulated apoptosis of inflammatory cells by gene therapy

JOURNAL Patent: JP 2002504381-A 7 12-FEB-2002;

COMMENT BOERINGER INGELHEIM PHARMACEUTICALS INC

OS Homo sapiens (human)

PN	JP-20025043B1-A/7	REFERENCE	Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; euroids; I.; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine.	
PD	12-FEB-2002	1 (bases 1 to 817)		
PP	12-JAN-1998	JP 2000533579		
PR	27-FEB-1998	US 60/076316		
PI	REYATI, J	TATWE, STEVEN D	MARLIN, RANDALL W	BARTON, PC
C12N15/09, A61K31/7088, A61K48/00, A61P1/04, A61P3/10, A61P7/06, PC	NOVEL DNA AND PRODUCTION THEREOF, NOVEL PLASMID HAVING SAME, NOVEL POLYPEPTIDE AND PRODUCTION THEREOF AND NOVEL ANTINEOPLASTIC AGENT FROM SAID POLYPEPTIDE	JOURNAL	PATENT: JP 1589256390-A 1 12-OCT-1999;	
PC	A61P29/00, A61P43/00, C12N9/64, C12N5/10, C12N15/00, FC	COMMENT	SOMA, G., Mizuno, D. and Tsuji, Y.	
C12N5/00	C12N15/00, A61K37/24, C07K13/00, C12P21/02, C12R1:19); CC	PI	SONA GENICHIRO, MIZUNO DENICHI, TSUJI YOSHIAKI PC	
CC	TNF-alpha untranslated Region	JOURNAL	C12N15/00, A61K37/24, C07K13/00, C12P21/02, C12R1:19); CC	
FH	Key	COMMENT	SOMA GENICHIRO, MIZUNO DENICHI	
FT	source	PI	Patent: JP 1589256390-A/1	
FT	Location/Qualifiers	COMMENT	JP 1989256390-A/1	
FT	1.	PI	JP 1989256390-A/1	
FEATURES	/organism='Homo sapiens (human)'	COMMENT	12-OCT-1998	
Source	/organism="Homo sapiens"	PI	JP 1988081683	
	/mol_type="genomic DNA"	COMMENT	03-APR-1998	
	/db_xref="taxon:9606"	PI	SONA GENICHIRO, MIZUNO DENICHI, TSUJI YOSHIAKI PC	
BASE COUNT	190 a 172 g 221 t	COMMENT	C12N15/00, A61K37/24, C07K13/00, C12P21/02, C12R1:19); CC	
ORIGIN		COMMENT	Strandedness: Double;	
		PI	Topology: Linear;	
		COMMENT	CC	
		PI	Hypothesis: No;	
		COMMENT	CC	
		PI	Anti-sense: No;	
		COMMENT	CC	
		PI	*Source: library=THP-1 cell;	
		COMMENT	Location/Qualifiers	
		PI	Key	
		COMMENT	FEH	
		PI	mat_peptide	
		COMMENT	>1. <817	
		PI	/product= Anti-tumor polypeptide.	
		COMMENT	Location/Qualifiers	
		PI	1.	
		COMMENT	.817	
		PI	/organism="Glycine max"	
		COMMENT	/mol_type="genomic DNA"	
		PI	/db_xref="taxon:3847"	
RESULT 5		BASE COUNT	183 a 268 c 206 g 160 t	
LOCUS	A16444	ORIGIN		
DEFINITION	Xba-PstI Fragment from THP-I cells.	Query Match	100.0%; Score 43; DB 6; Length 817;	
ACCESSION	A16444	Best Local Similarity	100.0%; Pred. No. 6.3e-07;	
VERSION	A16444.1	Mismatches	0;	
KEYWORDS	GI:641014	Indels	0;	
ORGANISM	Homo sapiens (human)	Gaps	0;	
REFERENCE	Somai, G.I., Mizuno, D., Tsuji, Y. and Kobayashi, N.	FEATURES	source	
AUTHORS		source		
TITLE	Anti-aids Preparation	source		
JOURNAL	Patent: EP 0450241-A 9 09-OCT-1991;	source		
KEYWORDS	Soma, Gen-Ichiro; Mizuno, Den'ichi	source		
ORGANISM	Homo sapiens	source		
REFERENCE	1 (bases 1 to 817)	source		
AUTHORS	Soma, G.I., Mizuno, D., Tsuji, Y. and Kobayashi, N.	source		
TITLE	Anti-aids Preparation	source		
JOURNAL	Patent: EP 0450241-A 9 09-OCT-1991;	source		
KEYWORDS	Soma, Gen-Ichiro; Mizuno, Den'ichi	source		
ORGANISM	Homo sapiens	source		
REFERENCE	1.	source		
AUTHORS		source		
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AUTHORS		source		

variation /gene="TNF-alpha"
322 /replace="t"
BASE COUNT 260 a 282 c 221 g 284 t
ORIGIN Query Match Best Local Similarity 100.0%; Score 43; DB 9; Length 1047;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 43
Db 225 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 267

RESULT 8
LOCUS 108430 Sequence 5 from Patent WO 8604606.
DEFINITION DNA
ACCESSION 108430
VERSION 108430.1 GI:5888660
KEYWORDS Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1275)
AUTHORS Mark,D.F., Lin,L.S., Liu,S.-D.Y. and Wang,A.M.
TITLE CYSTEINE DEPLETED MUTANTS OF BIOLOGICALLY ACTIVE HUMAN TUMOR
NECROSIS FACTOR PROTEINS
PATENT: WO 8604606-A 5 14-AUG-1986;
JOURNAL
FEATURES Location/Qualifiers 1..1275
source /organism="unknown"
BASE COUNT 297 a 357 c 309 g 312 t
ORIGIN Query Match Best Local Similarity 100.0%; Score 43; DB 6; Length 1275;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 43
Db 697 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 739

RESULT 9
LOCUS 107953 Sequence 6 from Patent EP 0168214.
DEFINITION DNA
ACCESSION 107953
VERSION 107953.1 GI:589335
KEYWORDS Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1323)
AUTHORS Aggarwal,B.B., Lee,S.H., Goeddel,D.V. and Nedwin,G.E.
TITLE Tumor necrosis factor, methods for its preparation, compositions
containing it, DNA encoding it and assay method using such DNA
PATENT: EP 0168214-A2 6 15-JAN-1986;
JOURNAL
FEATURES Location/Qualifiers 1..1323
source /organism="unknown"
BASE COUNT 298 a 387 c 308 g 330 t
ORIGIN Query Match Best Local Similarity 100.0%; Score 43; DB 6; Length 1323;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 43

Db 755 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 797

RESULT 10
LOCUS 100702 Sequence 2 from Patent US 4650674.
DEFINITION DNA
ACCESSION 103610
VERSION 103610.1 GI:2168979
KEYWORDS Homo sapiens (human)
ORGANISM Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1324)
AUTHORS Baria,B.A., Debitado,B.G., San,H.R. and Guren,E.N.
TITLE TUMOR NECROTIC FACTOR
JOURNAL Patent: JP 15886040221-A 1 26-FEB-1986;
COMMENT OS homosapiens
PN JP 1986040221-A/1
PD 26-FEB-1986
PP 05-JUL-1985 JP 1985149075
PR 05-JUL-1984 US 84 627959, 05-JUL-1984 US 84 628059, PR
05-JUL-1984 US 84 628060, 03-DEC-1984 US 84 6717156, PR
03-DEC-1984 US 84 677557, 03-DEC-1984 US 84 677454 PI BARIA
BUSHIYAN AGAWARU, DEBITADO BANNOMAN GETSUDERU, PI SAN HIT RI, PI GUREN REAN NEDOUTIN PC A61K35/32,A61K35/02,A61K35/14,A61K35/74,A61K37/04,C07H21/02,
PC C07H21/04,
PC C12N15/00;
CC strandness: Single;
CC topology: Linear;
CC hypothetical: No;
CC anti-sense: No;
CC *source: cell_type=promyelocytes;
CC *source: cell_lines=HL-60;
CC *source: clone=lambdabeta2-4, lambdabeta16-4;
Key
FH sig_peptide <1..61
FT mat_peptide 62..532
FT /product='tumor necrosis factor' FT CDS
FT <1..535
FT /product='tumor necrosis factor' FT 3'UTR
FT 536..>1324
FEATURES Location/Qualifiers 1..1324
source /organism="Homo sapiens"
/mol_type="genomic RNA"
/db_xref="taxon:9606"
Base COUNT 298 a 387 c 308 g 331 t
ORIGIN Query Match Best Local Similarity 100.0%; Pred. No. 6e-07;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCAAACCTGGGCTCCAGAACTCACTGGGCTACAGCTTGA 43
Db 103610 Sequence 2 from Patent US 4650674.
DEFINITION DNA
ACCESSION 103610
VERSION 103610.1 GI:268632
KEYWORDS Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 1324)
 AUTHORS Agrawal, B.B. and Lee, S. He.
 TITLE Synthetic cytotoxic composition
 JOURNAL Patent: US 4650674-A 21-MAR-1987;
 Genentech, Inc.; So. San Francisco, CA
 FEATURES Location/Qualifiers
 Source 1..1324
 /organism="unknown"
 BASE COUNT 298 a 387 c 308 g 331 t
 ORIGIN

Query Match Score 100.0%; Score 43; DB 6; Length 1324;
 Best Local Similarity 100.0%; Pred. No. 6e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 43
 Db 755 TAAACTGGGCCTCCAGAACTACTGGGCCATAGCTTGA 797

RESULT 12 SYNTNFTRP SYNTNFTRP 1379 bp mRNA linear SYN 27-APR-1993
 LOCUS Synthetic human tumor necrosis factor mRNA, complete cds.
 DEFINITION Synthetic human tumor necrosis factor mRNA, complete cds.
 VERSION M35592
 KEYWORDS tumor necrosis factor,
 synthetic construct
 synthetic construct
 artificial sequences.
 ORGANISM Nobuhara, M., Kanamori, T., Nagase, Y., Nii, A., Morishita, H.,
 Tohyama, J., Andoh, S. and Kurimoto, M.

REFERENCE 1 (bases 1 to 1379)
 AUTHORS Nobuhara, M., Kanamori, T., Nagase, Y., Nii, A., Morishita, H.,
 Tohyama, J., Andoh, S. and Kurimoto, M.
 TITLE The expression of human tumor necrosis factor in *E. coli*
 JOURNAL Nucleic Acids Symp. Ser. 17, 131-134 (1986)
 MEDLINE 87174864
 PUBMED 3031624
 COMMENT Original source text: Altered human leukemic B-cell line Ball-1,
 cDNA to mRNA, clone pM324-316.
 FEATURES Location/Qualifiers
 Source 1..1379
 /organism="synthetic construct"
 /mol type="mRNA"
 /db_xref="taxon:32630"
 178..879
 /note="synthetic tumor necrosis factor precursor"
 /codon_start=1
 /transl_table=1
 /protein_id="AAC42098.1"
 /db_xref="GI:1209486"
 /translation="MSTESMRDVEYLARBEALPKTKGPQGSRCLPLSFLIVGA
 TTLRLLLHFGVMGQREPPRDLSLISLAQAVRSSSSTPSKVHVANPQEQL
 VSYOTKVNLLANGVELNOLVYPSSEGYLYSQVLFKGQCPSPVLLTHISSIA
 DFAESGQVFFGILAL"

big_peptide 178..399
 /note="synthetic tumor necrosis factor signal peptide"
 rat_peptide 400..876
 /product="synthetic tumor necrosis factor"

BASE COUNT 318 a 438 c 336 g 287 t
 ORIGIN

Query Match Score 100.0%; Score 43; DB 12; Length 1379;
 Best Local Similarity 100.0%; Pred. No. 6e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 43
 Db 1100 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 1142

RESULT 13 104244
 LOCUS 104244 Sequence 2 from Patent US 4677197.
 DEFINITION Sequence 2 from Patent US 4677197.
 ACCESSION 104244
 VERSION 104244.1 GI:1268725
 KEYWORDS Unknown
 SOURCE Unknown
 ORGANISM Unknown
 REFERENCE 1 (bases 1 to 1465).
 AUTHORS Lin, L.S. and Yamamoto, R.
 TITLE Purification method for tumor necrosis factor
 JOURNAL Patent: US 4677197-A 23-JUN-1987;
 Cetus Corporation, Emeryville, CA
 FEATURES Location/Qualifiers
 1..1465
 /organism="unknown"
 BASE COUNT 324 a 429 c 363 g 349 t
 ORIGIN

Query Match Score 100.0%; Score 43; DB 6; Length 1465;
 Best Local Similarity 100.0%; Pred. No. 6e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 43
 Db 887 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 929

RESULT 14 T08863 T08863 1560 bp DNA linear PAT 02-DEC-1994
 LOCUS Sequence 3 from Patent WO 8806655.
 DEFINITION Sequence 3 from Patent WO 8806655.
 ACCESSION I08863
 VERSION I08863.1 GI:588416
 KEYWORDS Unknown
 SOURCE Unknown
 ORGANISM Unknown
 REFERENCE 1 (bases 1 to 1560).
 AUTHORS Mark, D.F., Lin, L.S., Thomson, J.W. and Yamamoto, R.
 TITLE ARGININE-DEPLETED HUMAN TUMOR NECROSIS FACTOR
 JOURNAL Patent: WO 8806655-A 3 07-SEP-1988;
 FEATURES Location/Qualifiers
 SOURCE
 BASE COUNT 340 a 473 c 381 g 366 t
 ORIGIN

Query Match Score 100.0%; Score 43; DB 6; Length 1560;
 Best Local Similarity 100.0%; Pred. No. 5.9e-07;
 Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 43
 Db 1007 TCAAACGGGCGCTCCAGAACTACTGGGCCATAGCTTGA 1049

RESULT 15 A37722 A37722 1585 bp DNA linear PAT 05-MAR-1997
 LOCUS A37722 Sequence 12 from Patent WO9104196.
 DEFINITION Sequence 12 from Patent WO9104196.
 ACCESSION A37722
 VERSION A37722.1 GI:2294369
 KEYWORDS Unidentified
 SOURCE Unidentified
 ORGANISM Unidentified
 REFERENCE 1 (bases 1 to 1585).
 AUTHORS Wile, R.G. and Hart, I.R.
 TITLE TUMOUR THERAPY
 JOURNAL Patent: WO 9104196-A 12 03-MAR-1994;
 FEATURES IMP CANCER RES TECH (GB)
 Location/Qualifiers

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source      1..1585
           /organism="unidentified"
           /mol type="genomic DNA"
           /db_xref="taxon:32644"
BASE COUNT    352 a   389 g   371 t
ORIGIN

Query Match  100.0%; Score 43; DB 6; Length 1585;
Best Local Similarity 100.0%; Fred. No. 5.9e-07;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 TCAACTGGGCTCCAGAACCTACCTGGGCTACAGCTTG 43
Db          1007 TCAACTGGGCTCCAGAACCTACCTGGGCTACAGCTTG 1049
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Search completed: February 3, 2004, 05:13:54
Job time : 450.769 secs

GenCore version 5.1.6
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

BLASTN search results for US-09-801-371A-1

Run on: February 3, 2004, 03:36:36 ; Search time 1090:23 Seconds
 (without alignments)
 3902,476 Million cell updates/search

Title: US-09-801-371A-1
 Perfect score: 104
 Sequence: 1 gaattcaaaatggccatcc.....ggttctggccagaatgtcg 104

Scoring table: IDENTITY_NUC
 GapOp 10.0 , GapExt 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters:
 Minimum DB seq length: 0 %
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0 %
 Maximum Match 100 %
 Listing first 45 summaries

Database : GenEmbl:*

1: gb_ba: *
 2: gb_htg: *
 3: gb_in: *
 4: gb_om: *
 5: gb_ov: *
 6: gb_dat: *
 7: gb_ph: *
 8: gb_dl: *
 9: gb_pr: *
 10: gb_ro: *
 11: gb_scs: *
 12: gb_sy: *
 13: gb_un: *
 14: gb_vii: *
 15: em_ba: *
 16: em_fun: *
 17: em_hum: *
 18: em_in: *
 19: em_mui: *
 20: em_om: *
 21: em_or: *
 22: em_ov: *
 23: em_dat: *
 24: em_vii: *
 25: em_p1: *
 26: em_ro: *
 27: em_scs: *
 28: em_un: *
 29: em_vii: *
 30: em_hsg_hum: *
 31: em_htg_inv: *
 32: em_htg_other: *
 33: em_hsg_mus: *
 34: em_htg_din: *
 35: em_htg_rod: *
 36: em_hsg_mam: *
 37: em_hsg_vrt: *
 38: em_sy: *
 39: em_hsgo_hum: *
 40: em_hsgo_mus: *
 em_hsgo_other: *

Pred. No. is the number of results predicted by chance to have a

ALIGNMENTS		STS 30-MAR-2000	
SUIT	ORGANISM	DEFINITION	SEQUENCE
1	<i>Homo sapiens</i> (human)	400 bp DNA sequence	linear
3533	<i>Homo sapiens</i> (human)	SRCC-11076 Human	tagged site.
3533	<i>Homo sapiens</i> (human)	G13533	
3533	<i>Homo sapiens</i> (human)	G13533.1	GI:1129372
3533	<i>Homo sapiens</i> (human)	STS.	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	DEFINITION	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	SESSION	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	VERSION	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	KEYWORDS	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	REFERENCE	
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	AUTHORS	Olivier, M., and Cox, D.R.
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	JOURNAL	Unpublished (2000)
3533	<i>Bukaryota</i> ; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	TITLE	Olivier, M., Cox, D.R. (2000)

ALGENEINS.

RESULT	1	ST30-MAR-2000	linear	DNA	400 bp	STS	genomic.	sequence	tagged	site.
ST30	313533	G13533	Human	Homo	stability	SGC	11076	DEFINITION	LOCUS	
ST30	313533	G13533	Human	Homo	stability	SGC	11076	DEFINITION	LOCUS	

COMMENT

Contact: Michael Olivier, David R. Cox
Stanford Human Genome Center
Stanford University School of Medicine
4005 Miranda Ave. 2nd Fl., Palo Alto, CA 94025, USA
Tel: (650) 320-5800
Fax: (650) 320-5801
Email: olivier@hgsc.stanford.edu
Primer A: CACTAGAATTCAACTGGCC
STR size: 166
PCR Profile:
Initial incubation: 94 degrees C for 90 seconds
Denaturation: 94 degrees C for 15 seconds
Annealing: 62 degrees C for 23 seconds
Polymerization: 72 degrees C for 30 seconds
PCR Cycles: 30

Protocol:

Template: 25 ng
Primer: each 1 uM
dNTPs: each 200 uM
Tag Polymerase: 0.05 units/uL
Total Vol.: 10 uL

Buffer: MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 20 mM
pH: 8.3

FEATURES

Source prepared with primer pairs derived from M10988 -- UniGene.
Location/Qualifiers

1..410 /organism="Homo sapiens"
/mol type="Genomic DNA"
/db_xref="taxon:9606"
/map="6"
/clone lib="Human"

STS 210..375
primer_bind 210..231
primer_bind complement (356..375)
BASE COUNT 104 a 120 c 87 g 89 t

ORIGIN

Query Match 100.0%; Score 104; DB 11; Length 400;
Best Local Similarity 100.0%; Pred. No. 9 5e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAACTGGCCCTCAGAACATGCTGGGGCTTACAGGTTGATCCCTGACATCTG 60
Db 216 GAATTCAACTGGCCCTCAGAACATGCTGGGGCTTACAGGTTGATCCCTGACATCTG 275

Qy 61 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 104
Db 276 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 319

RESULT 2
AR300453 LOCUS AR300453
DEFINITION Sequence 7 from patent US 6537784.
ACCESSION AR300453
VERSION AR300453..1
KEYWORDS Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 787)
AUTHORS Tatakai,R.J., Marlin,S.D. and Barton,R.W.
TITLE Self-regulated apoptosis of inflammatory cells by gene therapy.
JOURNAL Patent: US 6537784-A 7 25-MAR-2003;

FEATURES

source Location/Qualifiers

1..787 /organism="Unknown"
BASE COUNT 190 a 204 c 172 g 221 t

Query Match 100.0%; Score 104; DB 6; Length 787;
Best Local Similarity 100.0%; Pred. No. 9.7e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAACTGGGGCTTACAGGCTTACAGGTTGATCCCTGACATCTG 60
Db 222 GAATTCAAACTGGGGCTTACAGGCTTACAGGTTGATCCCTGACATCTG 281

Qy 61 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 104
Db 282 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 325

RESULT 4
BD137681 LOCUS BD137681
DEFINITION Self-regulated apoptosis of inflammatory cells by gene therapy.
ACCESSION BD137681

FEATURES

source Location/Qualifiers

1..787 /organism="Unknown"
BASE COUNT 190 a 204 c 172 g 221 t

Query Match 100.0%; Score 104; DB 6; Length 787;
Best Local Similarity 100.0%; Pred. No. 9.7e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 104
Db 282 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 325

FEATURES

source Location/Qualifiers

1..787 /organism="Unknown"
BASE COUNT 190 a 204 c 172 g 221 t

Query Match 100.0%; Score 104; DB 6; Length 787;
Best Local Similarity 100.0%; Pred. No. 9.7e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 104
Db 222 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 281

Qy 61 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 104
Db 282 GAATCTGGAGAACCGGGAGCCACTGCTGCCAGATGTGC 325

RESULT 4
BD137681 LOCUS BD137681
DEFINITION Self-regulated apoptosis of inflammatory cells by gene therapy.
ACCESSION BD137681

VERSION	BD137681.1	GI:23232626	Db	693	GAATTCAAACGTGGGCCCTCAAGAACTCACTGGGCCCTAACGTTGATCCCTGACATCTG	752
KEYWORDS	Homo sapiens (human)	QY	61	GAATCTGGAGACGGGGCCTTGTTGCTGGCCAGATGGCTGC	104	
SOURCE	Homo sapiens	Db	753	GAATCTGGAGACGGGGCCTTGTTGCTGGCCAGATGGCTGC	796	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
REFERENCE	I (bases 1 to 787)					
AUTHORS	Tatake, R.J., Marlin, S.D. and Barton, R.W.					
TITLE	Self-regulated apoptosis of inflammatory cells by gene therapy					
JOURNAL	Patent: JP 2002504381-A 7 12-FEB-2002;					
BOEHRINGER INGELHEIM PHARMACEUTICALS INC	OS Homo Sapiens (human)					
COMMENT	JP 2002504381-A/7					
PD	12-FEB-2002					
PP	12-JAN-1999	JP 20000533579				
PR	27-FEB-1998	US 6/076316				
PI	REVATT, J TATAKE, STEVEN D MARLIN, RANDALL W BARTON	PC				
C12N15/09 A61K31/7088, A61K49/00, A61P3/10, A61P17/06,	PC					
A61P25/00,	PC					
A61P29/00, A61P43/00, C12N5/64, C12Q1/68 // C12N5/10, C12N15/00,	PC					
C12N5/00	CC TNF-alpha untranslated region					
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FT	source	1. .787				
FT	Location/Qualifiers	/organism='Homo sapiens (human)'.				
FEATURES	Source	1. .787				
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	/mol_type='genomic DNA'					
BASB COUNT	190 a	/db_xref="taxon:9606"	172 g	221 t		
ORIGIN						
Query Match	100.0%	Score 104; DB 6; Length 787;				
Best Local Similarity	100.0%	Pred. No. 9.7e-25;				
Matches	104;	Mismatches 0;	Indels 0;	Gaps 0;		
QY	1	GAATTCAAACGTGGGCCCTCGAGAACTCACTGGGCCCTAACGTTGATCCCTGACATCTG	60			
Db	222	GAATTCAAACGTGGGCCCTCGAGAACTCACTGGGCCCTAACGTTGATCCCTGACATCTG	281			
2Y	61	GAATCTGGAGACGAGGGGCCCTTGTTCTGGCCAGATGGCTGC	104			
Db	282	GAATCTGGAGACGAGGGGCCCTTGTTCTGGCCAGATGGCTGC	325			
RESULT 5						
108430	I08430	Sequence 5 from Patent WO 8604606.	1275 bp	DNA	linear	PAT 02-DEC-1994
DEFINITION	I08430					
VERSION	I08430.1	GI:5088660				
KEYWORDS	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	I (bases 1 to 1275)					
AUTHORS	Mark D.P. Lin, I.S. Lu, S.-D. Y. and Wang, A.M.					
TITLE	CYTINE-DEPLETED PROTEINS OF BIOLOGICALLY ACTIVE HUMAN TUMOR NECROSIS FACTOR PROTEINS					
JOURNAL	Patent: WO 8604606-A 5 14-AUG-1986.					
FEATURES	Location/Qualifiers					
Source	1. .1275	/organism='unknown'				
BASE COUNT	297 a	357 c	309 g	312 t		
ORIGIN						
Query Match	100.0%	Score 104; DB 6; Length 1275;				
Best Local Similarity	100.0%	Pred. No. 9.9e-25;				
Matches	104;	Mismatches 0;	Indels 0;	Gaps 0;		
QY	1	GAATTCAAACGTGGGCCCTCGAGAACTCACTGGGCCCTAACGTTGATCCCTGACATCTG	60			

CC *source: cell-type-promyelocytes;
 CC *source: cell_line HL-60;
 CC *source: clone=lamda42-4, lambda16-4;
 FH Key Location/Qualifiers
 FT sig_peptide <1..61
 FT mat_peptide 62..532 /product='tumor necrosis factor'
 FT <1..535 /product='tumor necrosis factor' FT CDS
 FT 536..>1324.
 FEATURES source
 BASE COUNT 298 a
 ORIGIN 387 c 308 g 331 t
 Query Match 100.0%; Score 104; DB 6; Length 1324;
 Best Local Similarity 100.0%; Fred. No. 9.9e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GATTCAAACTGGGCTCAGAACTACTGGGCTACAGCTTGATCCCTGACATCG 60
 Db 751 GATTCAAACTGGGCTCAGAACTACTGGGCTACAGCTTGATCCCTGACATCG 60
 QY 61 GATTCTGAGACAGGGGCTTGGTTGGCCAGAATGCTGC 104
 Db 943 GATTCTGAGACAGGGGAGCCCTTGGCCAGAATGCTGC 986
 RESULT 10
 A37272 Locus A37272 DNA linear PAT 05-MAR-1997
 DEFINITION Sequence 12 from Patent WO9404196.
 ACCESSION A37272
 KEYWORDS TUMOUR THERAPY
 SOURCE unidentified
 ORGANISM unidentified
 UNCLASSIFIED
 REFERENCE 1 (bases 1 to 1324)
 AUTHORS Aggarwal,B.B. and Lee,S.He.
 TITLE Synergistic cytotoxic composition
 JOURNAL Patent: US 4650674 A 2 17-MAR-1987;
 Genentech, Inc.; So. San Francisco, CA
 FEATURES source
 BASE COUNT 298 a
 ORIGIN 387 c 308 g 331 t
 Query Match 100.0%; Score 104; DB 6; Length 1324;
 Best Local Similarity 100.0%; Fred. No. 9.9e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GATTCAAACTGGGCTCAGAACTACTGGGCTACAGCTTGATCCCTGACATCG 60
 Db 751 GATTCAAACTGGGCTCAGAACTACTGGGCTACAGCTTGATCCCTGACATCG 810
 QY 61 GATTCTGAGACAGGGGCTTGGTTGGCCAGAATGCTGC 104
 Db 943 GATTCTGAGACAGGGGAGCCCTTGGCCAGAATGCTGC 1106
 RESULT 11
 I04169 Locus I04169 DNA linear PAT 21-MAY-1993
 DEFINITION Sequence 1 from Patent US 4677063.
 ACCESSION I04169
 VERSION I04169.1 GI:268716
 KEYWORDS Unknown
 SOURCE Unknown
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 1585)
 AUTHORS Mark,D.F., Wang,A.M., Ladner,M.B., Creasey,A.A., Lin,L.S. and Van Arsdell,J.
 TITLE Human tumor necrosis factor
 JOURNAL Patent: US 467054-A 1 30-JUN-1987;
 Cetus Corporation; Emeryville, CA
 FEATURES 1. .1585
 /organism="unknown"
 BASE COUNT 352 a 473 c 389 g 371 t
 ORIGIN

Query Match Score 104; DB 6; Length 1585;
 Best Local Similarity 100.0%; Pred. No. 1e-24;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 60
 Db 1003 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 1062
 Qy 61 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 104
 Db 1063 GAATTCAAACCTGGGCTTACAGCTTGATCCAGACATCG 1106

RESULT 12 HUMAN TUMOR NECROSIS FACTOR
 LOCUS 104198 Sequence 1 from Patent US 4677064. linear PAT 21-MAY-1993
 DEFINITION Sequence 1 from Patent US 4677064.
 VERSION 104198
 KEYWORDS 104198.1 GI:269719
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 1585)
 AUTHORS Mark,D.F., Wang,A.M., Ladner,M.B., Creasey,A.A., Van Arsdell,J.N.
 and Lin,L.S.
 TITLE Human tumor necrosis factor
 JOURNAL Patent: US 467054-A 1 30-JUN-1987;
 FEATURES Location/Qualifiers
 BASE COUNT 352 a 473 c 389 g 371 t
 ORIGIN /organism="unknown"

Query Match Score 104; DB 6; Length 1585;
 Best Local Similarity 100.0%; Pred. No. 1e-24;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 60
 Db 1003 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 1062
 Qy 61 GAATTCAAACCTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCAGACATCG 104
 Db 1063 GAATTCAAACCTGGGCTTACAGCTTGATCCAGACATCG 1106

RESULT 13 HUMANFAA
 LOCUS 108384 Sequence 5 from Patent WO 8602381. DNA linear PAT 02-DEC-1994
 DEFINITION Sequence 5 from Patent WO 8602381.
 VERSION 108384
 KEYWORDS 108384.1 GI:588904
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 1585)
 AUTHORS Mark,D.F., Wang,A.M., Ladner,M.B., Creasey,A.A., Lin,L.S. and Van Arsdell,J.N.

PUBMED 3856324 Original source text: Human cDNA to mRNA, clone pE4.
 FEATURES Location/Qualifiers
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 CDS 86..787
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 QWLNRANALLANGBLRDNLQLVVSEGILYIISQVLFRKGQCPSTHVLTTISRLA
 VSYOTKVNLSAIKPCORETPEGAEAKPWEPYIPLGGFQLEKGDRUSAENRPYL
 DRAESEQVYFJIAI"

BASE COUNT	352	a	473	C	389	g	371	t
ORIGIN	Chromosome 6p21.3.							

Query Match Score 104; DB 9; Length 1585;
 Best Local Similarity 100.0%; Pred. No. 1e-24;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1003 GAATCTGAGACCAAGGGAGCCTTGGTCTGCCAGATGTGCG 104
Qy      61 GAATCTGAGACCAAGGGAGCCTTGGTCTGCCAGATGTGCG 104
Db      1063 GAATCTGAGACCAAGGGAGCCTTGGTCTGCCAGATGTGCG 1106

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Search completed: February 3, 2004, 05:13:54
 Job time : 1094.23 secs

Copyright (c) 1993 - 2004 CompuGen Ltd.

Sequence encoding Human tumour necro Tumour necrosis fa Chimeric nucleic a Chimeric nucleic a TNF-alpha Gene use Tumour necrosis fa Human TNF alpha Ge Human tumour necro Human tumour necro Human tumour necro Lymphotoxin and tu Human tumour necro Human tumour necro Human low adenosin Human adenosine re Human low adenosin Human low adenosin Human adenosine re Human adenosine re Human CDNA differen THP-1, Homo sapie XhoI - Part 1 Section Human anti-tumor P Part of gene for a Sequence encoding Tumor necrosis fac Sequence encoding Human anti-tumor P Sequence of the st Cis-acting nucleot Sequence of the st Porcine TNF alpha Human immune/haema

GenCore version 5.1.6
 Copyright (c) 1993 - 2004 Compugen Ltd.

of nucleic - nucleic search, using sw model
on: February 3, 2004, 03:10:21 ; Search time 287.946 Seconds
 (without alignments)
 974.981 Million cell updates/sec

Title: US-09-801-371A-1
Score: 104
Sequence: 1 gaattcaactgggcctcc.....ggttctggccagaatgttgtc 104

Scoring table: IDENTITY_NDC
 Gapov 10.0 , Gapext 1.0

2552/56 seqs, 1349/19017 residues
 Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0 Maximum DB seq length: 2000000000
 Maximum DB seq length: 2000000000
 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution

SUMMARIES						Description
	Query Match	Score	Length	DB	ID	
1	104	100.0	104	21	AHZ99816	Cis-acting nucleic acid sequence encoding human TNFalpha
2	104	100.0	787	20	AHZ20979	Sequence encoding human low adenosine deaminase
3	104	100.0	1275	7	AN60558	Human low adenosine deaminase
4	104	100.0	1123	7	AN60363	Human adenosine deaminase
5	104	100.0	1124	21	AAP211085	Sequence of PB4
6	104	100.0	1324	21	AAJ34963	Sequence encoding human adenosine deaminase
7	104	100.0	1500	9	AN80219	
8	104	100.0	1185	7	AN60557	

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SUMMARIES

No.	Score	Match	Length	DB	ID	Description
1	104	100_0	104	21	AAZ299816	Cis-acting nucleic acid sequence element
2	104	100_0	787	20	AAZ20979	Human TNFalpha promoter
3	104	100_0	1275	7	AAN605858	Sequence encoded by gene
4	104	100_0	1323	7	AAN613633	Sequence encoded by gene
5	104	100_0	1324	21	AAZ21095	Human low density lipoprotein receptor gene
6	104	100_0	1324	21	AAA31963	Human adenosine A2A receptor gene
7	104	100_0	1585	9	AAN60557	Sequence encoded by gene
8	104	100_0	1585	9	AAN60557	Sequence encoded by gene

MEMOIRS OF A
LAWYER.

16-MAR-2000, 06-SEP-1999; 07-SEP-1998; 26-OCT-1998; (VISS) VISSUM RES & DEV CO. Kaempfer R, Osman F, Jarrous N, Ben-Aouli Y; WPI; 2000-257000/22.

LEGMENTS

RESULT 1
AAZ99816
ID AAZ99816 Standard; RNA; 10
XY

Homo sapiens. tumour necrosis factor alpha, lnr-alpha, gene therapy / ab. WC200012555.A1

16-MAR-2000. 99W0-II00483. 06-SEP-1999; 98IL-0126112. 07-SEP-1998; 98IL-0126757. 26-OCT-1998; 98IL-0126757. (YISS) YISSUM RES & DEV CO. Kaempfer R, Osman F, Jarrous N, Ben-Azouli Y, WPI: 2000-257000/22.

הנִזְקָנָה

SUMMARIES

No.	Score	Match	Length	DB	ID	Description
1	104	100_0	104	21	AAZ299816	Cis-acting nucleic acid sequence element
2	104	100_0	787	20	AAZ20979	Human TNFalpha promoter
3	104	100_0	1275	7	AAN605858	Sequence encoded by gene
4	104	100_0	1323	7	AAN613633	Sequence encoded by gene
5	104	100_0	1324	21	AAZ21095	Human low density lipoprotein receptor gene
6	104	100_0	1324	21	AAA31963	Human adenosine A2A receptor gene
7	104	100_0	1585	9	AAN60557	Sequence encoded by gene
8	104	100_0	1585	9	AAN60557	Sequence encoded by gene

22

Ben-Absouli Y.

Regulation of gene expression by mRNA splicing is carried out using a cis-acting nucleotide sequence controlled by phosphorylation of the alpha-subunit of eukaryotic initiation factor 2.

Claim 4; Page 15; 75pp; English.

The specification describes a cis-acting nucleotide sequence which is capable of removing introns from a precursor transcript encoded by a gene which harbours at least one cis-acting nucleotide sequence. This removal is effected during the production of mRNA of the gene, and depends on activation of a trans-acting factor which is an RNA-activated protein kinase capable of phosphorylating the alpha-subunit of eukaryotic initiation factor 2 (eIF2alpha). Insertion of a cis-acting nucleotide sequence, derived from the 3' untranslated region (3'UTR) of the human tumour necrosis factor alpha ('TNF-alpha') gene, into another gene renders splicing of precursor transcripts encoded by that gene sensitive to the level of RNA-activated protein kinase (PRK) activity. The sequence can be used to transform host cells to regulate gene expression at the mRNA splicing level, for gene therapy, and to produce a recombinant therapeutic (e.g. an enzyme, hormone, growth factor, cytokine, structural protein) or industrially or agriculturally applicable protein. The present sequence represents a cis-acting nucleotide sequence of the invention.

Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match	100.0%	Score 104;	DB 21;	Length 104;
Best Local Similarity	100.0%	Pred. No. 1.3e-25;		
Matches	104;	Conservative	0;	Mismatches 0;
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Db	1	GATTCAAACCTGGGCTTCCAGAACTACTGGGCTTACAGCTTGATCCCTGACATCG	60	
Qy	61	GAATCTGGAGAACAGGGAGCCTTGGTTCTGGCCAGAATGCTGC	104	
Db	61	GAATCTGGAGAACAGGGAGCCTTGGTTCTGGCCAGAATGCTGC	104	

Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match

Best Local Similarity

Matches

Qy

Db

Qy

Db

Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match

Best Local Similarity

Matches

Qy

Db

Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match

Best Local Similarity

Matches

Qy

Db

Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match

Best Local Similarity

Matches

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Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

Query Match

Best Local Similarity

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Query Match

Best Local Similarity

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Query Match

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Sequence 104 BP; 23 A; 28 C; 29 G; 24 T; 0 other;

DR WPI: 1986-225458/34.
 DR P-PSDB; AAP60656.
 XX PT New synthetic mutants of human tumour necrosis factor protein -
 PT are obt'd. by direct mutagenesis and retain antitumour activity
 XX Disclosure: Fig 3a; 47pp; English.

The sequence encoding TNF produced by the promyelocytic leukemia cell line HL-60, ATCC no. CCL240) has been cloned and expressed in E.coli (see AAH60557). Neither of the cysteine residues (69 and 101) in the TNF sequence appears to be involved in disulphide linkages. The inventors claim a novel synthetic mutant of a biologically active hTNF protein, having at least one cysteine residue free from a disulphide link and non-essential to the activity and having at least one of the cysteine residues deleted or replaced by another AA. Plasmid pA731 (Ser 69) is claimed.

Sequence 1275 BP; 298 A; 357 C; 308 G; 312 T; 0 other;
 Sequence Match 100.0%; Score 104; DB 7; Length 1275;
 Best Local Similarity 100.0%; Pred. No. 2.7e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GRATTCAAACCTGGGCTTCCAGAACATCACTGGGCTTACAGCTTGATCCGTGACATCG 60
 Db 693 GRATTCAAACCTGGGCTTCCAGAACATCACTGGGCTTACAGCTTGATCCGTGACATCG 752
 QY 61 GATATCGAGACGAGCAGGGAGCTTGTGTTCTGGCCGAATGCTGC 104
 Db 753 GATATCGAGACGAGCAGGGAGCTTGTGTTCTGGCCGAATGCTGC 796

RESULT 4
 AAN60363 ID AAN60363 standard; DNA; 1323 BP.
 XX AC AAN60363;
 XX DT 19-JUN-1991 (first entry)
 XX DE Sequence encoding human tumour necrosis factor.
 XX KW hTNF; tumour; cancer; interferon; ds.
 OS Homo sapiens.
 XX Key Location/Qualifiers
 FT CDS 1..534
 FT /*tag= a
 FT sig_peptide 1..60
 FT /*tag= b
 FT mat_peptide 61..534 label= Secretory leader peptide
 FT /*tag= c

XX PD 15-JAN-1986.
 XX PR 03-JUL-1985; 85BP-0304758.
 XX PR 03-DEC-1984; 84US-0677454.
 XX PR 05-JUL-1984; 84US-0621959.
 XX PR 05-JUL-1984; 84US-0620059.
 XX PR 05-JUL-1984; 84US-0620860.
 XX PR 03-DEC-1984; 84US-0677156.
 XX PR 03-DEC-1984; 84US-0677257.
 XX PR 25-JUL-1984; 84US-0621969.
 XX PR 03-DEC-1984; 84US-0677267.
 XX PR 15-JAN-1986.

PA Aggarwal BB, Lee SH, Goeddel DV, Neelwin GB,
 XX WPI: 1986-015483/03.
 DR P-PSDB; AAP60417.
 XX PT Pure tumour necrosis factor and mutant forms - new DNA coding sequences and transformed cells.
 XX

Claim 20; Fig 10; 90pp; English.

Sequence encodes the pure human tumour necrosis factor, mutants of which are covered by the claims. TNF and mutants are useful in treating tumours, especially in tandem with interferon. The encoding sequence may be used to create plasmid pTRXpARTNF, allowing transformation of an E.coli host for the expression of TNF.

XX Sequence 1323 BP; 298 A; 385 C; 310 G; 330 T; 0 other;

Sequence Match 100.0%; Score 104; DB 7; Length 1323;

Best Local Similarity 100.0%; Pred. No. 2.7e-25;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAATTCAAACCTGGGCTTCCAGAACATCACTGGGCTTACAGCTTGATCCGTGACATCG 60
 Db 750 GAATTCAAACCTGGGCTTCCAGAACATCACTGGGCTTACAGCTTGATCCGTGACATCG 809
 QY 61 GAATTCGAGACGAGCAGGGAGCTTGTGTTCTGGCCGAATGCTGC 104
 Db 810 GAATTCGAGACGAGCAGGGAGCTTGTGTTCTGGCCGAATGCTGC 853

RESULT 5

AAP21085 ID AAP21085 standard; DNA; 1324 BP.
 XX AAF21085;
 XX AC AAF21085;
 XX DT 14-MAR-2001 (first entry)

XX Human low adenosine antisense oligonucleotide related sequence #2652.
 XX Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
 KW human; airway disorder; bronchoconstriction; lung inflammation;
 KW surfactant depletion; respiratory; bronchodilator; antiinflamatory;
 KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
 KW respiratory obstruction; pulmonary obstruction; impeded respiration;
 KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
 KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
 KW pulmonary hypertension; emphysema; pulmonary transplantation; rejection;
 KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
 KW cancer; ss.
 XX Homo sapiens.
 OS WO2000062736-A2.
 XX PN PN 06-APR-1999; 99US-0127958.
 XX PD 26-OCT-2000.
 XX PR 24-MAR-2000; 2000W0-US08020.
 XX PA (UYEC-) UNIV EAST CAROLINA.
 PA (NYCE-) NYCE J W.
 XX PI Nyce JW;
 XX DR WPI; 2000-679539/662.
 XX PT Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -

XX (GETH) GENENTECH INC.

XX

Disclosure; Page 887; 1592pp; English.

The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'universal' or alternative base, (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and/or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, receptors, cytokines and chemokines, endogenous produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system peptide transmitters, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impaired respiration, respiratory distress syndrome (ARDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF1843 to AAF21543 represent human polymucleotide fragments and antisense oligonucleotides used in the exemplification of the present invention.

Sequence 1324 BP; 298 A; 387 C; 308 G; 331 T; 0 other;

Query Match 100.0%; Score 104; DB 21; Length 1324;
Best Local Similarity 100.0%; Pred. No. 2.7e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAATTCAAACTGGGCTTCAGAACATCGACTGGGCCCTACAGCTTGTATCCGTGACATCTG 60
Db 751 GAAATTCAAACTGGGCCCTACAGCTTGTATCCGTGACATCTG 810

Qy 61 GAACTCTGAGACCCAGGAGCCTTGTGGTCTGGCCCAAATGTC 104

Db 811 GAACTCTGAGACCCAGGAGCCTTGTGGTCTGGCCCAAATGTC 854

RESULT 6
AAA34963 Standard; DNA; 1324 BP.
XX AAA34963 ;
AC DT 28-JUL-2000 (first entry)
DE Human adenosine receptor related polymucleotide SEQ ID NO:2652.
XX Human; adenosine receptor; low adenosine antisense oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; oligonucleotide;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiasthmatic; cytostatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.

XX Homo sapiens.

XX WO200009525-A2.

XX 24-FEB-2000.

PP 03-AUG-1999; 99WO-US17712.

PS Disclosure; Page 887; 1592pp; English.

XX PR 03-AUG-1998; 98US-0095212.

XX PA (UYEC-) UNIT EAST CAROLINA.

XX NYCE JW;

XX DR WPI; 2000-205971/18.

XX New antisense oligonucleotides useful for treating e.g. pulmonary

PT vasoconstriction, inflammation, allergies, asthma, hypertension,

PT bronchitis, emphysema, respiratory distress syndrome, ischemia or

PT cancers

XX Disclosure; Page 814-815; 1343pp; English.

XX The present invention describes a new composition comprising an

CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which

CC targets nucleic acids involved in bronchoconstriction, allergies, and/or

CC inflammation. The ON can have antiinflammatory, antiallergic,

CC antiasthmatic, cytostatic and analgesic activities. The compositions are

CC useful for the treatment of diseases associated with inflammation,

CC impaired airways, including lung disease and diseases whose secondary

CC effects afflict the lungs of a subject. They can be used for treating

CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies

CC asthma, impeded respiration, respiratory distress syndrome, pain, cystic

CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive

CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,

CC carcinomas, and cancers which may metastasise to the lungs, including

CC breast and prostate cancer. The A-containing ONs break down with the

CC release of deoxyadenosine which activates adenosine receptors causing

CC bronchoconstriction and inflammation. AAA32213 to AAA5312 represent the

CC nucleotide sequences given in the sequence listing from the present

CC invention which correspond to SEQ ID NO:1 to 2815, and then the last

CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences

CC differ from the previously named sequences. SEQ ID NO:11 to 1680

CC (AAA3223 to AAA33992) are specifically claimed ONs from the present

CC invention. N.B. Sequences given in the disclosure of the present

CC invention do not match up with their corresponding SEQ ID NO: sequences

CC given in the sequence listing.

XX Sequence 1324 BP; 298 A; 387 C; 308 G; 331 T; 0 other;

SQ Query Match 100.0%; Score 104; DB 21; Length 1324;

CC Best Local Similarity 100.0%; Pred. No. 2.7e-25;

CC Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC Query Match 100.0%; Score 104; DB 21; Length 1324;

QY 1 GAAATTCAAACTGGGCTTCAGAACATCGACTGGGCCCTACAGCTTGTATCCGTGACATCTG 60

DB 751 GAAATTCAAACTGGGCCCTACAGCTTGTATCCGTGACATCTG 810

QY 61 GAACTCTGAGACCCAGGAGCCTTGTGGTCTGGCCCAAATGTC 104

DB 811 GAACTCTGAGACCCAGGAGCCTTGTGGTCTGGCCCAAATGTC 854

RESULT 7
AAN80219 standard; DNA; 1560 BP.

XX AAN80219 ;

AC DT 28-DEC-1990 (first entry)

XX Sequence of pE4 encoding human tumour necrosis factor (TNF).

KW Lymphokine; antitumour; ss.

XX OS Homo sapiens.

FH Key

PT 86..313 Location/Qualifiers

FT mat_peptide /*tag= a
FT 314 . 787
FT /*tag= b
XX WO806625-A.
XX 07-SEP-1988.
XX 25-JAN-1988;
PP 88WO-US00163.
XX PR 26-FEB-1987; 87US-0019221.
XX PA (CETUS) CETUS CORP.
XX PI Mark DF, Thomson JW, Lin LS, Yamamoto R;
XX DR WPI; 1988-221165/38.
XX P-PSDB; AAP80728.
XX Human tumour necrosis factor muteins -
PT having comparable biological activity with improved stability
PT and ease of purification
XX Disclosure: Fig 1-1 to 1-2; 51pp; English.
PS A human TNF protein which is modified from the sequence shown in
CC AP80728, including naturally occurring allelic variants is claimed. Also
CC claimed are: recombinant DNA sequences encoding the protein (AN80219)
CC and control sequences for expression; a vector; a transformed host cell;
CC a method of producing the protein by culturing the host cell;
CC pharmaceutical compn. of the protein and a carrier and a method of
CC treating tumour burden with the compn. The muteins are capable of the
CC range of biological activities exhibited by native TNF but exhibit
CC improved stability and ease of purification.
XX Sequence 1560 BP; 340 A; 473 C; 381 G; 366 T; 0 other;
SQ Query Match Similarity 100.0%; Score 104; DB 9; Length 1560;
Best Local Similarity 100.0%; Pred. No. 2 8e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GAATTCAACTGGGCTTCCAGAACCTCACGGGCTAAGCTTTGATCCCTGACATCTG 60
Db 1003 GAATTCAACTGGGCTTCCAGAACCTCACGGGCTAAGCTTTGATCCCTGACATCTG 1062
Qy 61 GAATCTGGGAGCAGGGGGCTTGTTCTGGCGAATCTGTC 104
Db 1063 GAATCTGGGAGCAGGGGGCTTGTTCTGGCGAATCTGTC 1106

RESULT 8
ID AAN60557 standard; DNA; 1585 BP.
XX AC AAN60557;
XX DT 28-JUL-1991 (first entry)
XX DE Sequence encoding mature human tumour necrosis factor (hTNF) in pE4.
XX KW Antitumour; anticancer; ss.
OS Homo sapiens.
XX PH Key
CDS Location/Qualifiers
FT 86 . 313
FT /*tag= a
FT mat_Peptide
XX /*tag= b
PN WO8604606-A.
XX PD 14-AUG-1986.
PP 19-DEC-1985; 85WO-EP00721.

XX 03-FEB-1986; 86WO-US00236.
PP XX PR 07-FEB-1985; 85US-0698939.
PR 19-OCT-1982; 82US-04515.
PR 15-APR-1983; 83US-0486162.
PR 20-DEC-1983; 83US-0564224.
PR 15-OCT-1984; 84US-061026.
PR 07-FEB-1985; 85US-0695934.
XX PA (CETU) CETUS CORP.
XX PI Mark DF, Lin LS, Lu SDY, Wang AM;
XX DR WPI; 1986-225458/34.
DR P-PSDB; AAP80655.
XX PT New synthetic muteins of human tumour necrosis factor protein -
PT are obtd. by direct mutagenesis and retain antitumour activity
XX Disclosure: Fig 1; 47pp; English.
XX PS Sequence encoding TNF produced by the promyelocytic leukemia
CC cell line (HL-60, ATCC no. CCL240) has been cloned and expressed in
CC E.coli (see AAN60557). Neither of the cysteine residues (69 and 101) in
the TNF sequence appears to be involved in disulphide linkages. The
CC inventors claim a novel syntetic mutant of a biologically active
CC TNF protein, having at least one cysteine residue free from a
CC disulphide link and non-essential to the activity and having at least one of the cysteine residues deleted or replaced by another AA.
CC Plasmid pAN731 (Ser 69) is claimed.
XX Sequence 1585 BP; 352 A; 473 C; 389 G; 371 T; 0 other;
SQ Query Match Similarity 100.0%; Score 104; DB 7; Length 1585;
Best Local Similarity 100.0%; Pred. No. 2.8e-25;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GATTCAACTGGGCTTCCAGAACCTCACGGGCTAAGCTTTGATCCCTGACATCTG 60
Db 1003 GATTCAACTGGGCTTCCAGAACCTCACGGGCTAAGCTTTGATCCCTGACATCTG 1062
Qy 61 GATTCTGGGAGCAGGGGGCTTGTTCTGGCGAATCTGTC 104
Db 1063 GATTCTGGGAGCAGGGGGCTTGTTCTGGCGAATCTGTC 1106

RESULT 9
ID AAN60446 standard; CDNA; 1606 BP.
XX AC AAN60446;
XX DT 25-MAR-2003 (updated)
DR 07-AUG-1991 (first entry)
XX DE Sequence encoding tumour necrosis factor (TNF).
XX KW Anticancer agent; antitumour; antimarial; tumour necrosis factor;
XX OS Homo sapiens.
XX PH Key
CDS Location/Qualifiers
FT 158 . 859
FT /*tag= a
XX PN WO8603751-A.
XX PD 03-JUL-1986.
PP 19-DEC-1985; 85WO-EP00721.

PR 09-OCT-1985; 85US-0785847.
 PR 21-DEC-1984; 84US-0684595.
 PR 09-OCT-1986; 86US-0502133.
 XX (BIOJ) BIOGEN INC.
 PA (BIOJ) BIOGEN NV.
 PA (FIER /) FIEERS W C.
 PA (ALLE /) ALLET B.
 PA (BIOJ) BIOGEN INC.
 XX
 PI Fiers WC, Fransen LM, Tavernier JHL, Marmenout ALM;
 VanderHeyden J, Allet B, Washima EH;
 DR WPI; 1996-182891/28.
 DR P-PSDB; AAP60531.
 XX
 PT Mammalian tumour necrosis factors - produced by culturing
 PT pro-karyotic hosts transformed with recombinant DNA
 XX
 PS Example: Fig 9: 93pp; English.
 XX
 CC TNF-like polypeptides and compsns. are produced by the fermentation
 CC of host cells transformed with at least one DNA sequence which codes
 CC for a mammalian TNF-like polypeptide operatively linked to an
 CC expression control sequence in the transformed host.
 CC (Updated on 25-MAR-2003 to correct PA field.)
 XX
 SQ Sequence 1606 BP; 357 A; 494 C; 394 G; 361 T; 0 other;
 Query Match 100.0%; Score 104; DB 7; Length 1606;
 Best Local Similarity 100.0%; Pred. No. 2.8e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAACTCAAACTGGGCCCTCAGAACTACTGGGCCCTACAGGTTGATCCCTGACATCTG 60
 Db 1075 GAACTCAAACTGGGCCCTCAGAACTACTGGGCCCTACAGGTTGATCCCTGACATCTG 1134
 QY 61 GAACTGGAGAACCGGGAGCCCTTGGTTCTGGCCAGATGCTGC 104
 Db 1135 GAACTGGAGAACCGGGAGCCCTTGGTTCTGGCCAGATGCTGC 1178

RESULT 10
 AAT15424
 ID AAT15424 standard; cDNA; 1606 BP.
 AC AAT15424;
 XX
 DT 25-MAR-2003 (updated)
 DT 23-APR-1996 (first entry)
 XX Human tumour necrosis factor cDNA clone p-hTNF-1.
 DB Human tumour necrosis factor; TNF; phage T4; phage lambda; pL promoter;
 KW antitumour; anticancer; antimarial; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 158..159
 FT /*tag= a
 FT sig_Peptide 158..185
 FT /*tag= b
 FT mat_Peptide 386..386
 FT /*tag= c
 XX
 PN US5487984-A.
 XX
 PD 30-JAN-1996.
 XX
 PP 20-DEC-1985; 85US-0811654.
 PR 20-DEC-1985; 85US-0811654.
 PR 21-DEC-1984; 84US-0684595.

PR 09-OCT-1985; 85US-0785847.
 XX (BIOJ) BIOGEN INC.
 PA Allet B, Washima EH;
 PI Alliet B, Kawashima EH;
 DR WPI; 1996-105230/11.
 DR P-PDB; AAR8590.
 XX
 PT Prod'n. of tumour necrosis factor - using recombinant DNA encoding
 TNF under the control of T4 or lambda pL-T4 expression control
 PT sequences.
 XX
 PS Example 9; Fig 9; 43pp; English.
 XX
 CC A cDNA clone (AAT15424), p-hTNF-1 (DSM 3160), codes for the human
 CC tumour necrosis factor (hTNF) precursor (AAR8590). It was obt'd.
 CC by screening a human cDNA library with a fragment of mouse TNF
 CC cDNA. The isolated cDNA may be linked to expression control
 CC sequences from phage T4 or phage lambda (see AAT15402-05 and
 CC AAT15425-26) for expression in host cells, esp. Escherichia coli,
 CC and commercial-scale prod'n. of recombinant TNF for use as an
 CC antitumour, anticancer and antimalarial agent.
 CC (Updated on 25-MAR-2003 to correct PA field.)
 XX
 SQ Sequence 1606 BP; 357 A; 494 C; 394 G; 361 T; 0 other;

Query Match 100.0%; Score 104; DB 17; Length 1606;
 Best Local Similarity 100.0%; Pred. No. 2.8e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAACTCAAACTGGGCCCTCAGAACTACTGGGCCCTACAGGTTGATCCCTGACATCTG 60
 Db 1075 GAACTCAAACTGGGCCCTCAGAACTACTGGGCCCTACAGGTTGATCCCTGACATCTG 1134
 QY 61 GAACTGGAGAACCGGGAGCCCTTGGTTCTGGCCAGATGCTGC 104
 Db 1135 GAACTGGAGAACCGGGAGCCCTTGGTTCTGGCCAGATGCTGC 1178

RESULT 11
 AAT31021
 ID AAT31021 standard; DNA; 1643 BP.
 XX
 AC AAT31021;
 XX
 DT 26-SEP-1996 (first entry)
 XX Human tumour necrosis factor cDNA clone HSTNFR.
 XX
 KW Gene therapy; hypoxia related enhancer element; HREB; ischaemia;
 KW reperfusion; promoter; tumour necrosis factor; TNF; ds.
 XX Homo sapiens.
 OS
 FH Key Location/Qualifiers
 FT CDS 153..854
 FT /*tag= a
 XX
 PN WO9620276-A1.
 XX
 PD 04-JUL-1996.
 XX
 PP 13-NOV-1995; 95WO-IB000986.
 XX
 PR 23-DEC-1994; 94US-0365486.
 XX
 (SRI) SRI INT.
 XX
 PI Bishopric NH, Green CJ, Laderoute KR, Murphy B;
 PI Webster KA;
 XX
 DR WPI; 1996-321849/32.

DR P-PSDB; AAU00454.
 XX Chimeric gene contg. therapeutic gene linked to HREE - partic. for
 PT expressing SOD etc. in hypoxic tissue to reduce tissue injury caused
 PT by ischaemia or reperfusion
 XX

PS Example 8 ; Page 100-101; 118pp; English.

XX A PCR-generated DNA fragment (AAU31021) encoding human tumour necrosis factor (TNF) (AAU00454). TNF induces apoptosis and is not known to be induced by hypoxic stress. A ~90 bp human metallothionein IIA promoter fragment (see also AAU31003) was inserted upstream of the hTNF gene and the construct was used to transfect mouse C2C12 myoblasts and A431 cells. Hypoxia-mediated TNF induction and tumour control were demonstrated in an animal xenograft model.

XX Sequence 1643 BP; 370 A; 495 C; 398 G; 380 T; 0 other;

Query Match Score 104; DB 17; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 2; Je-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAACTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCCTGACATCG 60
 Db 1070 GAATTCAACTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCCTGACATCG 1129

Qy 61 GAATCTGGAGAACGAGGAGCTTGTTCGGCCGAATGCTGC 104
 Db 1130 GAATCTGGAGAACGAGGAGCTTGTTCGGCCGAATGCTGC 1173

RESULT 12
 ABK13195 standard; DNA; 1643 BP.
 ID ABK13195;
 AC ABK13195;
 XX DT 23-APR-2002 (first entry)
 XX Human tumour necrosis factor alpha (TNF alpha) DNA.
 XX TNF; apoptosis; ds; tumour; death domain receptor ligand;
 XX diterpenoid triepoxide; cytostatic activity; c-IAP2; c-IAP1;
 XX carcinoma; mammary adenocarcinoma; non-small cell lung carcinoma;
 XX neurological malignancy; haematological malignancy; lichen planus;
 XX non-Hodgkin's lymphoma; chronic lymphoctic leukaemia; anti-angiogenic;
 XX malignant cutaneous T-cell; lymphomatoid papulosis; anti-metastatic;
 XX non-MP curaneous T-cell lymphoma; mycosis fungoides; anti-tumour;
 XX T-cell rich cutaneous lymphoid hyperplasia; bullous pemphigoid;
 XX discoid lupus erythematosus; human; gene; tumour necrosis factor.
 XX Homo sapiens.

XX Key Location/Qualifiers
 FH 153..854
 FT /*tag= a
 FT /product= "TNF alpha protein"
 XX PN US6323148-B1.
 XX PD 11-DEC-2001.
 XX PF 15-FEB-2000; 2000US-0505250.
 XX PR 16-FEB-1999; 99US-120313P.
 XX PR 20-AUG-1999; 99US-149989P.
 XX (ISTRD) UNIV LEELAND STANFORD.
 XX PI Rosen GD, Kao P;
 XX WPI ; 2002-121125/16.

DR P-PSDB; AAU75065.
 XX Use of a synergistic combination of death domain receptor ligands and diterpenoid triepoxides for killing of tumour cells -
 PT Disclosure; Column 27-30; 20pp; English.
 XX

This invention relates to a novel method for enhanced killing of tumour cells comprising contacting a tumour cell with a synergistic combination of a death domain receptor ligand and a diterpenoid triepoxide. This method has cytostatic activity and works by blocking TNF-alpha mediated induction of c-IAP2 and c-IAP1. The method of the invention may be used for treating tumours, particularly solid tumours, e.g. carcinoma, mammary adenocarcinoma and non-small cell lung carcinoma also neurological malignancies, haematological malignancies, e.g. non-Hodgkin's lymphoma, chronic lymphoctic leukaemia, malignant cutaneous T-cells, mycosis fungoides, non-MP cutaneous T-cell lymphoma, lymphomatoid papulosis, T-cell rich cutaneous lymphoctic leukaemia, lichen planus, The combination may be administered with other active agents, e.g. anti-metastatic, anti-tumour or anti-angiogenic agents. The potent synergy between the diterpenoids and the death domain ligands allows increased killing at equivalent or lower doses, and can sensitise otherwise resistant cells. This sequence represents a human tumour necrosis factor alpha (TNF alpha) DNA. TNF alpha is a ligand for death domain receptors used in the used method of the invention in combination with diterpenoid triepoxides to kill tumours by induction of apoptosis.

XX Sequence 1643 BP; 370 A; 495 C; 398 G; 380 T; 0 other;

Query Match Score 104; DB 24; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 2; Je-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAACTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCCTGACATCG 60
 Db 1070 GAATTCAACTGGGCTTCCAGAACTCACTGGGCTTACAGCTTGATCCCTGACATCG 1129

Qy 61 GAATCTGGAGAACGAGGAGCTTGTTCGGCCGAATGCTGC 104
 Db 1130 GAATCTGGAGAACGAGGAGCTTGTTCGGCCGAATGCTGC 1173

RESULT 13
 AAD49644 standard; DNA; 1643 BP.
 ID AAD49644
 AC AAD49644;
 XX DT 24-MAR-2003 (first entry)
 XX Human tumour necrosis factor alpha (TNF-alpha) DNA.
 XX Amyloidosis; haemophilia; Alzheimer's disease; atherosclerosis; cancer;
 XX gigantism; dwarfism; hypothyroidism; hyperthyroidism; cystic fibrosis;
 XX autoimmune disorder; aging; inflammation; diabetes; obesity; colorectal;
 XX neurodegenerative disorder; Parkinson's disease; Gene therapy; virucide;
 XX haemotoxic; antibacterial; nootropics; neuroprotective; cytostatic;
 XX fungicide; human; tumour necrosis factor alpha; TNF-alpha; gene; ds.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 FH 1..152
 FT /*tag= a
 FT 852..1643
 FT /*tag= b
 XX PN WO200283953-A1.
 XX PD 24-OCT-2002.

Page 8

PP XX	11-APR-2002; 2002WO-US11757.
PPR XX	11-APR-2001; 2001US-282965P.
(PTCT-) PTC THERAPEUTICS INC. XXX	
Rando R, PPI XXX	Welch E; WPI; 2003-075561/07.
PTPT XXX	Identifying a test compound to treat or preventing amyloid diabetes, by contacting a test library of test compounds -
PTPT XXX	Example; Page 53-54; 152PP; E
PTPS XXX	The invention relates to a method of identifying a test compound that binds to a target RNA molecule labelled target RNA molecule conditions that permit direct member of the library of test target RNA; test compound comprising screening libraries of compound a pre-selected target RNA. The formation of a specific bound They are also useful for treating haemophilia, Alzheimer's disease with overproduction or decrease dwarfism, hypothyroidism, hypertension, cystic fibrosis disorders, Parkinson's disease. The invention is also used in human tumour necrosis factor is used to illustrate the method.
SQ XXX	Sequence 1643 BP; 370 A; 495 Query Match 100.0%; Best Local Similarity 100.0%; Matches 104; Conservative 0
QY Ddb	1 GAATTCAACTGGCGCTCC
QY Ddb	1070 GAACTCAAACGGGCGCTCC
QY Ddb	61 GAATCTGGAGACGGGAAC
QY Ddb	1130 GAATCTGGAGACGGGAAC
RESULT 14	
AAL53712	AAL53712 standard; DNA; 1643
DID	AAL53712;
XX	07-FEB-2003 (First entry)
XX	Tumour necrosis factor alpha
XX	Target RNA; target RNA; support
XX	mass spectrometry; high-throu
XX	Homo sapiens.
OS	WO200283887-A1.
XX	24-OCT-2002.
PN	PP XX
PN	11-APR-2002; 2002WO-US11758.
PN	11-APR-2001; 2001US-282966P.
PN	11-APR-2001; 2001US-282966P.

XX	(PTCT-)	PTC THERAPEUTICS INC.
PA		
XX		Almstead NG;
PI		
DR		WPI: 2003-075534/07.
XX		Identifying a test compound that separates the detectably labeled compound complex from undetectable compounds by flow cytometry -
PT		
PT		
PT		
XX		Example; Page 44-45; 131pp; Etc
PS		
XX		The invention relates to a novel compound that binds to a target RNA molecule labeled target RNA: support-attracting uncomplexed target RNA molecule process is carried out by flow cytometry. The type of test compound of the complex by mass spectrometry. screening of libraries of compounds. This polynucleotide sequence is detecting method of the invention.
XX		
SQ	Sequence 1643 BP; 370 A; 495 C	
	Query Match 100.0%;	
	Best Local Similarity 100.0%;	
	Matches 104; Conservative 0;	
QY	1 GATTCAAACGGGGCTCC	
Db	1070 GATTCAAACGGGGCTCC	
QY	61 GATTCGAGAACGAGGAGCC	
Db	1130 GATTCGAGAACGAGGAGCC	
	RESULT 15	
ARZ20083	standard; DNA; 2270 B	
ID	AAZ20083	
XX		
AC	AAZ20083;	
XX		
DT	30-NOV-1999 (first entry)	
XX		
DE	Chimeric nucleic acid -706TNF-	
XX		
KW	TNFalpha; tumour necrosis factor	
KW	chimeric; multiple sclerosis;	
KW	psoriasis; graft versus host disease;	
KW	diabetes; ankylosing spondylitis	
XX		
OS	Synthetic.	
OS	Homo sapiens.	
XX		
PH	Location/Qualit	
Key promoter	7/733	
FT	/tag= a	
FT	/label= TNFalpha	
FT	/note= Human	
FT	740-1477	
CDS		
FT	/tag= b	
FT	/product= "Tnf-	
FT	/note= "inactive"	
FT	1490-2264	
3' UTR		
FT	/tag= c	
FT	/label= TNFalpha	
XX		
VN	WC9943840-A1.	

PD 02-SEP-1999.
 XX 12-JAN-1999; 99WO-US00637.
 PP PR 27-FEB-1998; 98US-0076316.
 XX (BOEHRINGER INGELHEIM PHARM INC.
 PA
 XX PI Tatake RJ, Marlin SP, Barton RW;
 XX DR 1999-527630/44.
 PT PT A chimeric polynucleotide consisting of a tumour necrosis factor (TNF)
 promoter and an apoptosis-inducing Granzyme B polynucleotide -
 XX PS Claim 4: Fig 12; 71PP; English.
 XX This sequence represents chimeric nucleic acid -706TNFpGB3'UTR. This
 CC comprises at least one TNFalpha (tumour necrosis factor alpha) promoter
 CC enhancer region (AAZ20975-220978), a TNFalpha native promoter (AAZ20973),
 CC a DNA encoding a truncated form of the apoptosis-inducing Granzyme B
 CC protein (AAZ20982), and a TNFalpha 3'UTR (untranslated region)
 CC sequence (AAZ20979). TNFalpha is one of a number of cytokines
 CC produced by inflammatory cells. Upregulation and/or dysregulation
 CC of cytokines in inflamed tissue may be directly or indirectly
 CC responsible for exacerbation of chronic inflammatory diseases.
 CC Introduction of this chimeric nucleotide to activated inflammatory cells
 CC causes them to undergo apoptosis. Pharmaceutical compositions of this
 CC chimeric nucleotide may be useful for treating inflammatory disorders
 CC such as multiple sclerosis, Crohn's disease, ulcerative colitis,
 CC psoriasis, graft versus host disease, lupus erythematosus,
 CC insulin-dependent (type I) diabetes mellitus, ankylosing spondylitis,
 CC and in particular, rheumatoid arthritis. The use of such chimeric
 CC nucleotides offers simpler and cheaper long-term relief, in comparison
 CC with existing conventional pharmaceutical and invasive surgery methods.
 XX Sequence 2270 BP; 556 A; 647 C; 545 G; 522 T; 0 other;
 SQ Query Match 100.0%; Score 104; DB 20; Length 2270;
 Best Local Similarity 100.0%; Pred. No. 3.1e-25;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAATTCAAACCTGGGCCTCAGAACCTACTGGGCCCTACAGCTTGATCCCATCTG 60
 Db 1705 GAATTCAAACCTGGGCCTCAGAACCTACTGGGCCCTACAGCTTGATCCCATCTG 1764
 QY 61 GAACTGGAGACCAAGGAGCTTGGTCGGAAATGCTGC 104
 Db 1765 GAATCTGGAGACCAAGGAGCTTGGTCGGAAATGCTGC 1808

Search completed: February 3, 2004, 04:47:55
 Job time : 290.946 SECS

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OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 04:34:26 ; Search time 80.6531 Seconds

(without alignments)
569.152 Million cell updates/sec

Title: US-09-801-371a-1

Perfect score: 104

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Scoring table: IDENTITY_NUC

Gapop 10.0 ; Gapext 1.0

Searched:

569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-Processing Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_NA.*

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4: /cgn2_6/prodata/2/ina/6B_COMB.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	104	100.0	787	4 US-09-397A-13
2	104	100.0	787	4 US-09-229-151C-7
3	104	100.0	1643	3 US-08-680-542-36
4	104	100.0	1643	4 US-09-305-250-4
5	104	100.0	16270	4 US-09-329-151C-13
6	104	100.0	2570	4 US-09-229-151C-14
7	104	100.0	36334	3 US-09-166-186-1
8	104	100.0	36334	3 US-09-313-332-1
9	104	100.0	36334	3 US-09-109-663-34
c 10	28	26.9	28720	4 US-09-141-587-7
c 11	27.4	26.3	11592	4 US-09-818-112-3
c 12	26.4	25.4	3170	4 US-09-169-168-1
c 13	26.4	25.4	3171	4 US-09-169-176-15
c 14	26.4	25.4	3181	1 US-08-655-086-1
c 15	26.4	25.4	3349	4 US-09-169-168-13
c 16	26.4	25.4	3531	4 US-09-169-176-7
c 17	26.4	25.4	3541	4 US-09-169-168-9
c 18	25.8	24.8	3889	4 US-09-184-970B-39
c 19	25.8	24.8	4031	1 US-08-159-784-1
c 20	25.6	24.6	642	3 US-09-128-111-82
c 21	25.6	24.6	1923	4 US-09-320-312D-1004
c 22	25.6	24.6	26334	3 US-08-911-553-30
c 23	25.6	24.6	26334	3 US-09-479-409-30
c 24	25.6	24.6	26334	4 US-09-479-553-30
c 25	25.6	24.6	17612	3 US-08-911-553-29
c 26	25.6	24.6	17612	3 US-09-479-453-29
c 27	25.6	24.6	17612	4 US-09-479-453-29

RESULT 1

US-09-032-297A-13

; Sequence 13, Application US/0903297A

; Patent No. 6525184

GENERAL INFORMATION:

APPLICANT: Revati J. Tatake, Steven D. Marlin and Randall W. Barron

TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADRESSEEE: Boehringer Ingelheim Corporation
STREET: 900 Ridgebury Road, P.O. Box 368
CITY: Ridgefield
STATE: Connecticut
COUNTRY: United States of America
ZIP: 06877-0368COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 Mb diskette

COMPUTER: IBM PC

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Processing

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/032-297A

FILING DATE: 27-Feb-1998

CLASSIFICATION: <Unknown>

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 60/018,266

FILING DATE: 28-Feb-97

ATTORNEY/AGENT INFORMATION:

NAME: Robert P. Raymond

REGISTRATION NUMBER: 25089

REFERENCE/DOCKET NUMBER: 9/12/PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 203-791-6183

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 787

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: <Unknown>

DESCRIPTION: DNA

FEATURE:

NAME/KEY: TNFA 3' untranslated region

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-032-297A-13

Query Match Similarity 100.0% ; Best Local Similarity 100.0% ; Pred. No. 5.7e-27;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query 1 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 60
 Database 222 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 281
 Result 2
 Sequence 7, Application US/09229151C
 Patent No. 6537784
 General Information:
 Applicant: Take, Revati J.
 Applicant: Marlin, Steven D.
 Applicant: Barton, Randall W.
 Title of Invention: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy
 File Reference: 9/137
 Current Application Number: US/09/229,151C
 Current Filing Date: 1999-01-12
 Prior Application Number: US 60/076,316
 Prior Filing Date: 1998-02-27
 Number of SEQ ID Nos: 15
 Software: PatentIn version 2.0
 SEQ ID NO 7
 LENGTH: 787
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 OTHER INFORMATION: TNF-alpha untranslated region

US-09-229-151C-7
 Query Match 100.0%; Score 104; DB 4; Length 787;
 Best Local Similarity 100.0%; Pred. No. 5.7e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query 1 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 60
 Database 222 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 281
 Result 3
 Sequence 36, Application US/08880342
 Patent No. 6218379
 General Information:
 Applicant: Webster, Keith A.
 Applicant: Bishopric, Nanette H.
 Applicant: Murphy, Brian
 Applicant: Laderoute, Keith R.
 Applicant: Green, Christopher J.
 Title of Invention: Tissue Specific Hypoxia Regulated Therapeutic Constructs
 Number of Sequences: 37
 Correspondence Address:
 Addressee: Denlinger & Associates
 Street: 350 Cambridge Avenue, Suite 250
 City: Palo Alto
 State: CA
 ZIP: 94306
 Computer Readable Form:
 Medium Type: Floppy disk
 Computer: IBM PC compatible
 Operating System: PC-DOS/MS-DOS
 Software: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/880,342
 FILING DATE: 23-JUN-1997
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/IB95/00996
 FILING DATE: 13-NOV-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/365,486
 FILING DATE: 23-DEC-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Sholtz, Charles K.
 REGISTRATION NUMBER: 8255-0018.30
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 36:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1643 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: unknown
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: TNF cDNA HSTNFR (EMBL Accession
 INDIVIDUAL ISOLATE: #X01394)
 NAME/KEY: CDS
 LOCATION: 153..851
 US-08-880-342-36

Query Match 100.0%; Score 104; DB 3; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 7.2e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query 1 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 60
 Database 1070 GAATTCAAACTGGGCCCTCCAGAACTACTGGGCCCTACAGCTTGTATCCCTGACATCTG 1129
 Result 4
 Sequence 4, Application US/09505250A
 Patent No. 6329148
 General Information:
 Applicant: Kao, Peter
 Applicant: Rosen, Glenn
 Applicant: Kao, Peter
 Title of Invention: Synergistic Anti-Cancer Therapy with Triptolides and Death Domain Ligands
 Title of Invention: Triptolides and Death Domain Ligands
 File Reference: SUN-109PRV2
 Current Application Number: US/09/505,250A
 Current Filing Date: 2000-02-15
 Number of SEQ ID Nos: 4
 Software: FastSEQ for Windows Version 3.0
 SEQ ID NO 4
 LENGTH: 1643
 TYPE: DNA
 ORGANISM: H. sapiens
 Feature:
 Name/Key: CDS
 Location: (153)..(854)
 US-09-505-250-4

Query Match 100.0%; Score 104; DB 4; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 7.2e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAACTCAAACCTGGCCCTCAAGAACTCAACTGGGCCCTAACAGCTTGAATCCGTGACATCTG 60
 Db 1070 GAACTCAAACCTGGCCCTCAAGAACTCAACTGGGCCCTAACAGCTTGAATCCGTGACATCTG 1129
 Qy 61 GAACTCGGAGAACGAGGGAGCCTTGGTTCTGCCAGAATGCTGC 104
 Db 1130 GAACTCGGAGAACGAGGGAGCCTTGGTTCTGCCAGAATGCTGC 1173

RESULT 5

US-09-229-151C-13

Sequence 13, Application US/09229151C

Patent No. 6537784

GENERAL INFORMATION:

APPLICANT: Tatsuke, Revari J.

APPLICANT: Marlin, Steven D.

APPLICANT: Barton, Randall W.

TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy

FILE REFERENCE: 9/137

CURRENT FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: US 60/076,316

PRIOR FILING DATE: 1998-02-27

NUMBER OF SEQ ID NOS: 15

SOFTWARE: PatentIn version 2.0

SEQ ID NO: 13

LENGTH: 2270

FEATURE: DNA

ORGANISM: Human

FEATURE: chimeric gene : -706TNFpGB3' UTR

US-09-229-151C-13

Query Match Score 104; DB 4; Length 2270;
 Best Local Similarity 100.0%; Pred. No. 8e-27;
 Matches 104; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 GAACTCAAACCTGGCCCTCAAGAACTCAACTGGGCCCTAACAGCTTGAATCCGTGACATCTG 60
 Db 1705 GAACTCAAACCTGGCCCTCAAGAACTCAACTGGGCCCTAACAGCTTGAATCCGTGACATCTG 1764Qy 61 GAACTCGGAGAACGAGGGAGCCTTGGTTCTGCCAGAATGCTGC 104
 Db 1765 GAACTCGGAGAACGAGGGAGCCTTGGTTCTGCCAGAATGCTGC 1808

RESULT 6

US-09-229-151C-14

Sequence 14, Application US/09229151C

Patent No. 6537784

GENERAL INFORMATION:

APPLICANT: Tatsuke, Revari J.

APPLICANT: Marlin, Steven D.

APPLICANT: Barton, Randall W.

TITLE OF INVENTION: Self-Regulated Apoptosis of Inflammatory Cells by Gene Therapy

FILE REFERENCE: 9/137

CURRENT FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: US 60/076,316

PRIOR FILING DATE: 1998-02-27

NUMBER OF SEQ ID NOS: 15

SOFTWARE: PatentIn version 2.0

SEQ ID NO: 14

LENGTH: 2570

FEATURE: DNA

ORGANISM: Human

FEATURE: chimeric gene : -1005TNFpGB3' UTR

US-09-229-151C-14

Query Match Score 104; DB 4; Length 2570;

Best Local Similarity 100.0%; Pred. No. 8.3e-27;

RESULT 7

US-09-166-186-1

Sequence 1, Application US/09166186A

GENERAL INFORMATION:

APPLICANT: Baker, Brenda

APPLICANT: Bennett, C. Frank

APPLICANT: Butler, Madeline M.

APPLICANT: Shanahan, William R.

TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-a EXPRESSION

CURRENT APPLICATION NUMBER: US/09/166,186A

CURRENT FILING DATE: 1998-10-05

NUMBER OF SEQ ID NOS: 250

SEQ ID NO: 1

LENGTH: 3634

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

LOCATION: (796..981,1589..1634,1822..1869,2171..23592)

FEATURE: exon

NAME/KEY: exon

LOCATION: (615)..(981)

FEATURE: intron

NAME/KEY: intron

LOCATION: (982)..(1588)

FEATURE: exon

NAME/KEY: exon

LOCATION: (1589)..(1634)

FEATURE: intron

NAME/KEY: intron

LOCATION: (1635)..(1821)

FEATURE: exon

NAME/KEY: exon

LOCATION: (1822)..(1869)

FEATURE: intron

NAME/KEY: intron

LOCATION: (1870)..(2070)

FEATURE: exon

NAME/KEY: exon

LOCATION: (2171)..(3381)

PUBLICATION INFORMATION:

AUTHORS: Newlin, G. E.

AUTHORS: Naylo, S. L.

AUTHORS: Sakaguchi, A. Y.

AUTHORS: Smith, D.

AUTHORS: Jarrett Nedwin, J.

AUTHORS: Pennica, D.

AUTHORS: Goeddel, D. V.

AUTHORS: Gray, P. W.

TITLE: Human lymphotoxin and tumor necrosis factor genes: structure,

TITLE: homology and chromosomal localization

JOURNAL: Nucleic Acids Res.

VOLUME: 13

ISSUE: 17

PAGES: 6361-6373

DATE: 1985-09-11

DATABASE ACCESSION NUMBER: X02910 Genbank

DATABASE ENTRY DATE: 1997-02-17

US-09-166-186-1

Query Match 100.0%; Score 104; DB 3; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 9.2e-27;
 Matches 104; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

1 GAATTCAAATGGGGCTCGAAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 60
 2808 GAATTCAAATGGGGCTCGAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 2867

61 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 104
 2866 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 2911

SU1.T 8 -0-313-932-1
 Sequence 1, Application US/09313332A
 Patent No. 6228642
 GENERAL INFORMATION:
 APPLICANT: Baker, Brenda
 APPLICANT: Bennett, C. Frank
 APPLICANT: Beller, Madeline M.
 APPLICANT: Shanahan, William R.
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-
 TITLE OF INVENTION: EXPRESSION
 FILE REFERENCE: ISPH-0356
 CURRENT APPLICATION NUMBER: US/09/313,932A
 CURRENT FILING DATE: 1999-05-18
 SEQ ID NO 1
 LENGTH: 3634
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: NAME/KEY: exon
 LOCATION: (796..981,1589..1634,1822..1869,2171..2592)
 FEATURE: NAME/KEY: CDS
 LOCATION: (796..981,1589..1634,1822..1869,2171..2592)
 FEATURE: NAME/KEY: exon
 LOCATION: (615)..(981).
 FEATURE: NAME/KEY: intron
 LOCATION: (982)..(1588)
 FEATURE: NAME/KEY: exon
 LOCATION: (1589)..(1634)
 FEATURE: NAME/KEY: intron
 LOCATION: (1635)..(1821)
 FEATURE: NAME/KEY: exon
 LOCATION: (1822)..(1869)
 FEATURE: NAME/KEY: intron
 LOCATION: (1870)..(2070)
 FEATURE: NAME/KEY: exon
 LOCATION: (2171)..(3381)
 PUBLICATION INFORMATION:
 AUTHORS: Nedwin, G.B.
 AUTHORS: Naylor, S.L.
 AUTHORS: Sakaguchi, A.Y.
 AUTHORS: Smith, D.
 AUTHORS: Garrett-Newwin, J.
 AUTHORS: Pennica, D.
 AUTHORS: Goeddel, D.V.
 AUTHORS: Gray, P.W.
 TITLE: Human lymphotoxin and tumor necrosis factor genes:
 TITLE: structure, homology and chromosomal localization
 VOLUME: 13
 ISSUE: 17
 PAGES: 6361-6373
 DATE: 1985-09-11

; DATABASE ENTRY DATE: 1997-02-17
 ; US-09-313-932-1
 Query Match 100.0%; Score 104; DB 3; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 9.2e-27;
 Matches 104; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 GAATTCAAATGGGGCTCGAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 60
 Db 2808 GAATTCAAATGGGGCTCGAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 2867

Qy 61 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 104
 Db 2868 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 2911

RESULT 9
 US-09-109-663-34
 Sequence 34, Application US/09109663
 Patent No. 6227981
 GENERAL INFORMATION:
 APPLICANT: TU, Guang-Chou
 APPLICANT: Israel, Yedy
 TITLE OF INVENTION: AN IMPROVED METHOD FOR DESIGN AND SELECTION OF
 TITLE OF INVENTION: EFFICIENT ANTISENSE OLIGONUCLEOTIDES
 FILE REFERENCE: 9855-3U1
 CURRENT APPLICATION NUMBER: US/09/109,663
 CURRENT FILING DATE: 1998-07-03
 EARLIER APPLICATION NUMBER: 60/051,705
 EARLIER FILING DATE: 1997-07-03
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 34
 LENGTH: 3634
 TYPE: DNA
 NUMBER OF SEQ ID NOS: 81
 OTHER INFORMATION: TNF (alpha) cDNA
 SEQ ID NO 34
 LENGTH: 3634
 FEATURE:
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: TNF (alpha) cDNA
 US-09-109-663-34

Query Match 100.0%; Score 104; DB 3; Length 3634;
 Best Local Similarity 100.0%; Pred. No. 9.2e-27;
 Matches 104; Conservative 0; Mismatches 0;
 Indels 0; Gaps 0;

Qy 1 GAATTCAAATGGGGCTCGAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 60
 Db 2808 GAATTCAAATGGGGCTCGAACTCACTGGGCTACAGCTTGATCCGTGACATCTG 2867

Qy 61 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 104
 Db 2868 GAATCTGGAGACCAGGGAGCTTGGTTGCGAAGATGCTGC 2911

RESULT 10
 US-09-341-587-7/c
 Sequence 7, Application US/09341587
 Patent No. 6346606
 GENERAL INFORMATION:
 APPLICANT: Mollenhauer, Jan
 TITLE OF INVENTION: Protein Containing an SRCR Domain
 FILE REFERENCE: 411-108
 CURRENT APPLICATION NUMBER: US/09/341,587
 CURRENT FILING DATE: 1999-08-31
 EARLIER APPLICATION NUMBER: PCT/DE98/00096
 EARLIER FILING DATE: 1998-01-09
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 7
 LENGTH: 28720
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-341-587-7

Query Match Score 28; DB 4; Length 28720;
 Best Local Similarity 58.3%; Pred. No. 4.3;
 Matches 49; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
 SEQ ID NO: 2 ATTCTGAGAACGGACCTTG 85
 Db 14762 ATTGTGAAGCAGGTCCTAGAGGAGAGGGACATCTCATTGTPACCAGTCAGG 14703
 Query Match Score 28; DB 4; Length 28720;
 Best Local Similarity 58.3%; Pred. No. 4.3;
 Matches 49; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
 SEQ ID NO: 2 ATTCTGAGAACGGACCTTG 85
 Db 14702 TATTITGTCACAAAGAATCATCTG 14679

RESULT 11
 Sequence 3. Application US/09818512
 Patent No. 6537780
 GENERAL INFORMATION:
 APPLICANT: BEASLEY, Ellen et al.
 TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
 TITLE OF INVENTION: THEREOF
 FILE REFERENCE: CL001192
 CURRENT FILING DATE: 2001-03-28
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: FastSEQ For Windows Version 4.0
 SEQ ID NO: 3
 LENGTH: 116592
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(116592)
 OTHER INFORMATION: n = A,T,C or G
 US-09-818-512-3

Query Match Score 27.4; DB 4; Length 116592;
 Best Local Similarity 54.5%; Pred. No. 11;
 Matches 55; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
 SEQ ID NO: 4 TTCAAAACTGGGGCTCCAGAACTTACAGCTTGTGATCCCTGACATCTGGAA 63
 Db 81506 TTCAAACTTTGCGATGCTTCTGTTCCATTTCAACCGAAATTTAT 81565
 Query Match Score 27.4; DB 4; Length 116592;
 Best Local Similarity 54.5%; Pred. No. 11;
 Matches 55; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
 SEQ ID NO: 64 TCTGGAGACCCGGAGGAGCTTGTGCGCCAGAATGCTGC 104
 Db 81566 TTTCTTTCAGGAGGATTACAGTACCCCTGAACTCTC 81606

RESULT 12
 Sequence 1. Application US/09169768
 Patent No. 6492508
 GENERAL INFORMATION:
 APPLICANT: GRUSKIN, ELLIOT A.
 APPLICANT: BUECHTER, DOUGLAS
 APPLICANT: ZHANG, GUANGHUI
 APPLICANT: PAOLELLA, DAVID
 TITLE OF INVENTION: AMINO ACID MODIFIED POLYPEPTIDES
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: DILWORTH & BARRESE
 STREET: 333 EARL OVINGTON BOULEVARD
 CITY: UNIONDALE
 STATE: NY
 ZIP: 11553
 COUNTRY: U.S.A.

RESULT 13
 Sequence 15. Application US/09169768
 Patent No. 6492508
 GENERAL INFORMATION:
 APPLICANT: GRUSKIN, ELLIOT A.
 APPLICANT: BUECHTER, DOUGLAS
 APPLICANT: BROKAW, JANE
 APPLICANT: ZHANG, GUANGHUI
 APPLICANT: PAOLELLA, DAVID
 TITLE OF INVENTION: AMINO ACID MODIFIED POLYPEPTIDES
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: DILWORTH & BARRESE
 STREET: 333 EARL OVINGTON BOULEVARD
 CITY: UNIONDALE
 STATE: NY
 ZIP: 11553
 COUNTRY: U.S.A.
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/169,768
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: STEEN, JEFFREY S.
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (516) 228-8484
 INFORMATION FOR SEQ ID NO: 15;
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3171 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: Single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-09-169-768-15

GenCore version 5.1.6
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 3, 2004, 05:14:03 ; Search time 1850,07 Seconds
 (without alignments)
 207,072 Million cell updates/sec

Title: US-09-801-371A-1
 Perfect score: 104
 Sequence: 1 gaattcaaaactggggccccc.....ggttctggccagaatgtctgc 104

Scoring table: IDENTITY_NUC
 Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters:

4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

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 3: /cgm2_6/podata/1/pubnra/US05_NEW_PUB.seq:*
 4: /cgm2_6/podata/1/pubnra/US05_NEW_PUB.seq:*
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 7: /cgm2_6/podata/1/pubnra/US09_NEW_PUB.seq:*
 8: /cgm2_6/podata/1/pubnra/US08_PUBCOMB.seq:*
 9: /cgm2_6/podata/1/pubnra/US09_PUBCOMB.seq:*
10: /cgm2_6/podata/1/pubnra/US09B_PUBCOMB.seq:*
11: /cgm2_6/podata/1/pubnra/US09C_PUBCOMB.seq:*
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13: /cgm2_6/podata/1/pubnra/US09_ENEW_PUB.seq:*
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18: /cgm2_6/podata/1/pubnra/US10_ENEW_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	104	10 US-09-801-371A-1	Sequence 1, Appli
c	104	100.0	104	10 US-09-801-371A-1	Sequence 2, Appli
3	104	100.0	1643	13 US-10-312-841-2	Sequence 3, Appli
4	104	100.0	1643	15 US-09-796-59-623	Sequence 4, Appli
5	104	100.0	1643	15 US-10-057-75B-223	Sequence 5, Appli
6	104	100.0	1643	15 US-10-154-884B-6223	Sequence 6, Appli
7	104	100.0	1666	13 US-10-247-671-8	Sequence 7, Appli
8	104	100.0	3634	11 US-09-824-322B-1	Sequence 8, Appli
9	104	100.0	3634	11 US-09-932-30-34	Sequence 9, Appli
10	104	100.0	3634	13 US-10-191-99-104	Sequence 10, Appli
11	104	100.0	4830	12 US-10-429-802-33	Sequence 11, Appli
12	104	100.0	4830	12 US-10-430-503-24	Sequence 12, Appli
13	93	89.4	1279	13 US-10-247-671-120	Sequence 13, Appli
14	77	74.0	81	10 US-09-801-371A-7	Sequence 14, Appli
15	59.8	57.5	3673778	13 US-10-312-841-1	Sequence 15, Appli

%

DESCRIPTION

SEQ ID NO 1

LENGTH: 104

TYP: DNA

ORGANISM: Homo sapiens

US-09-801-371A-1

SEQUENCE:

CGATTCAACTGGGGCTCAAGAACACTCACTGGGGCTAGACGCTTGTATCCCTGACATCG

60

|||||||

RESULT 2

US-09-801-371a-5/c
 Sequence 5, Application US/09801371A
 Patent No. US20030155569A1
 / GENERAL INFORMATION:
 / APPLICANT: Kaempfer, Raymond
 / APPLICANT: Osman, Farhat
 / APPLICANT: Jarrous, Nayef
 / APPLICANT: Ben-Aouli, Yitzhak
 / TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH
 / TITLE OF INVENTION: MANIPULATION OF mRNA SPlicing AND ITS USES
 / FILE REFERENCE: A34084-PCT-USA-A 066031-0147
 / CURRENT APPLICATION NUMBER: US/09/801,371A
 / CURRENT FILING DATE: 2001-03-07
 / PRIOR APPLICATION NUMBER: PCT WO 00/14255
 / PRIOR FILING DATE: 1999-09-06
 / NUMBER OF SEQ ID NOS: 12
 / SOFTWARE: FastSEQ for Windows Version 4.0
 / SEQ ID NO 5
 / LENGTH: 104
 / TYPE: DNA
 / ORGANISM: Homo sapien
 / US-09-801-371a-5

Query Match 100.0%; Score 104; DB 10; Length 104;
 Best Local Similarity 100.0%; Pred. No. 6.3e-28;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAATGGGCCCTCAAGAACTCACTGGGCCATACAGCTTGATCCCTGACATCTG 60
 Db 104 GAATTCAAATGGGCCCTCAAGAACTCACTGGGCCATACAGCTTGATCCCTGACATCTG 45

Qy 61 GAATCTGGAGACCGGGCCTTGTCTGGCCAGATGGCTC 104
 Db 44 GAATCTGGAGACCGGGCCTTGTCTGGCCAGATGGCTC 1

RESULT 3
 Sequence 9, Application US/10310793
 Publication No. US2003198640A1
 / GENERAL INFORMATION:
 / APPLICANT: Yu, Guo-Liang
 / APPLICANT: Ni, Jian
 / APPLICANT: Rosen, Craig A
 / APPLICANT: Zhang, Jun
 / APPLICANT: Wei, Ping
 / TITLE OF INVENTION: Methods And Compositions For Treating Inflammatory Bowel Diseases
 / FILE REFERENCE: PP573
 / CURRENT APPLICATION NUMBER: US/10/310,793
 / CURRENT FILING DATE: 2002-12-06
 / PRIOR APPLICATION NUMBER: 60/336,695
 / PRIOR FILING DATE: 2001-12-07
 / PRIOR APPLICATION NUMBER: 10/226,294
 / PRIOR FILING DATE: 2002-08-23
 / PRIOR APPLICATION NUMBER: 60/314,381
 / PRIOR FILING DATE: 2001-08-24
 / PRIOR APPLICATION NUMBER: 09/899,059
 / PRIOR FILING DATE: 2001-07-06
 / PRIOR APPLICATION NUMBER: 60/278,449
 / PRIOR FILING DATE: 2001-01-26
 / PRIOR APPLICATION NUMBER: 60/216,879
 / PRIOR FILING DATE: 2000-07-07
 / PRIOR APPLICATION NUMBER: 09/559,290
 / PRIOR FILING DATE: 2000-04-27
 / PRIOR APPLICATION NUMBER: 60/180,908
 / PRIOR FILING DATE: 2000-02-08
 / PRIOR APPLICATION NUMBER: 60/134,067
 / PRIOR FILING DATE: 1999-05-13
 / PRIOR APPLICATION NUMBER: 60/132,227
 / PRIOR FILING DATE: 1999-05-03
 / NUMBER OF SEQ ID NOS: 71

Remaining Prior Application data removed - See File Wrapper or PALM.

RESULT 4
 US-10-272-411-4
 / Sequence 4, Application US/1022411
 / Publication No. US2003010006BA1
 / GENERAL INFORMATION:
 / APPLICANT: Barnes Jewish Hospital
 / APPLICANT: Lam, Jonathan
 / APPLICANT: Ross, P. Patrick
 / APPLICANT: Teitelbaum, Steven
 / TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
 / FILE REFERENCE: 60019620-0202
 / CURRENT APPLICATION NUMBER: US/10/272,411
 / CURRENT FILING DATE: 2002-10-15
 / PRIOR APPLICATION NUMBER: 60/1329,393
 / PRIOR FILING DATE: 2001-10-15
 / NUMBER OF SEQ ID NOS: 52
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO 4
 / LENGTH: 1643
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / PUBLICATION INFORMATION:
 / DATABASE ACCESSION NUMBER: NCBI/ X01394.1
 / DATABASE ENTRY DATE: 1995-03-21
 / RELEVANT RESIDUES: (1)...(1643)
 / PUBLICATION INFORMATION:
 / DATABASE ACCESSION NUMBER: NCBI/ BC028148.1
 / DATABASE ENTRY DATE: 2002-05-01
 / RELEVANT RESIDUES: (1)...(1643)
 / PUBLICATION INFORMATION:
 / DATABASE ACCESSION NUMBER: NCBI/ M35592.1
 / DATABASE ENTRY DATE: 1993-04-27
 / RELEVANT RESIDUES: (1)...(1643)
 / PUBLICATION INFORMATION:
 / DATABASE ACCESSION NUMBER: NCBI/ XM_165823.1
 / DATABASE ENTRY DATE: 2002-08-01
 / RELEVANT RESIDUES: (1)...(1643)
 / US-10-272-411-4

Query Match 100.0%; Score 104; DB 15; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAAATGGGCCCTCAAGAACTCACTGGGCCATACAGCTTGATCCCTGACATCTG 60
 Db 1070 GAATTCAAATGGGCCCTCAAGAACTCACTGGGCCATACAGCTTGATCCCTGACATCTG 1129

Qy 61 GAATCTGGAGACCGGGCCTTGTCTGGCCAGATGGCTC 104
 Db 1130 GAATCTGGAGACCGGGCCTTGTCTGGCCAGATGGCTC 1173

RESULT 5

US-10-218-547-3
 ; Sequence 3, Application US/10218547
 ; Publication No. US2003010007481
 ; GENERAL INFORMATION:
 ; APPLICANT: Human Genome Sciences, Inc.
 ; TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases Rel

; FILE REFERENCE: PFS61
 ; CURRENT FILING DATE: 2002-08-15
 ; PRIOR APPLICATION NUMBER: 60/312,542
 ; PRIOR FILING DATE: 2001-08-16
 ; PRIOR APPLICATION NUMBER: 60/330,761
 ; PRIOR FILING DATE: 2001-10-30
 ; NUMBER OF SEQ ID NOS: 57
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 3
 ; TYPE: DNA
 ; ORGANISM: human
 ; US-10-218-547-3

Query Match 100.0%; Score 104; DB 15; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 60
 Db 1070 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 1129
 Qy 61 GATCTGGAGACGAGCCAGCTTGCTTGGCCAGAATGCTGC 104
 Db 1130 GATCTGGAGACGAGCCAGCTTGCTTGGCCAGAATGCTGC 1173

RESULT 6

US-10-272-328A-4
 ; Sequence 4, Application US/10272328A
 ; Publication No. US20030109444A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Barnes Jewish Hospital
 ; APPLICANT: Ross, F. Patrick
 ; APPLICANT: Teitelbaum, Steven
 ; TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
 ; FILE REFERENCE: 60013620-0206

; CURRENT FILING DATE: 2003-01-24
 ; PRIOR APPLICATION NUMBER: 60/325,393
 ; PRIOR FILING DATE: 2001-10-15
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 4
 ; LENGTH: 1643
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-272-328A-4

Query Match 100.0%; Score 104; DB 15; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 60
 Db 1070 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 1129
 Qy 61 GATCTGGAGACGAGCCAGCTTGCTTGGCCAGAATGCTGC 104
 Db 1130 GATCTGGAGACGAGCCAGCTTGCTTGGCCAGAATGCTGC 1173

RESULT 7
 US-10-247-671-68

Query Match 100.0%; Score 104; DB 15; Length 1643;
 Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 60
 Db 1070 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 1129

RESULT 8

US-09-824-322B-1

Sequence 1, Application US/09824322B

Publication No. US20030022848A1

GENERAL INFORMATION:

APPLICANT: Baker, Brenda C.

APPLICANT: Bennett, C. Frank

APPLICANT: Butler, Madeline M.

APPLICANT: Shahanan, William R.

TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TUMOR NECROSIS FACTOR-AL

TITLE OF INVENTION: ALPHA EXPRESSION

FILE REFERENCE: ISPH-0501

CURRENT APPLICATION NUMBER: US/09/0924, 322B

CURRENT FILING DATE: 2001-04-02

PRIOR APPLICATION NUMBER: US/09/313, 932

PRIOR FILING DATE: 1999-01-18

PRIOR APPLICATION NUMBER: US 09/166, 186

PRIOR FILING DATE: 1998-10-05

NUMBER OF SEQ ID NOS: 503

SEQ ID NO 1

LENGTH: 3634

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

LOCATION: (796..981,1589..1634,1822..1869,2171..2592)

NAME/KEY: exon

LOCATION: (615)..(981)

NAME/KEY: intron

LOCATION: (982)..(1588)

NAME/KEY: exon

LOCATION: (1589)..(1634)

; Sequence 68, Application US/10247671
 ; Publication No. US20030194721A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mirita, Thomas
 ; APPLICANT: Schiffman, Dov
 ; APPLICANT: Porter, Gordon, J.
 ; APPLICANT: Kaser, Matthew R.

; TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS
 ; FILE REFERENCE: PA-0505 US
 ; CURRENT APPLICATION NUMBER: US/10/247,671
 ; CURRENT FILING DATE: 2003-09-18
 ; PRIOR APPLICATION NUMBER: 60/323,784
 ; PRIOR FILING DATE: 2001-09-19
 ; NUMBER OF SEQ ID NOS: 186

; SOFTWARE: PERL Program
 ; SEQ ID NO 68
 ; LENGTH: 1666
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

FEATURE:
 NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. US20030194721A1 223092.1

FEATURE:
 NAME/KEY: unsure

OTHER INFORMATION: a, t, c, g, or other

US-10-247-671-68

Query Match 100.0%; Score 104; DB 13; Length 1666;

Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 60

Db 1085 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 1144

Query Match 100.0%; Score 104; DB 13; Length 1666;

Best Local Similarity 100.0%; Pred. No. 1e-27;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 60

Db 1145 GATTCAAACTGGGCTCCAGAACTACGGGCTAACGTTACAGCTTGATCCTGACATCG 1188

RESULT 8

US-09-824-322B-1

Sequence 1, Application US/09824322B

Publication No. US20030022848A1

GENERAL INFORMATION:

APPLICANT: Baker, Brenda C.

APPLICANT: Bennett, C. Frank

APPLICANT: Butler, Madeline M.

APPLICANT: Shahanan, William R.

TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TUMOR NECROSIS FACTOR-AL

TITLE OF INVENTION: ALPHA EXPRESSION

FILE REFERENCE: ISPH-0501

CURRENT APPLICATION NUMBER: US/09/0924, 322B

CURRENT FILING DATE: 2001-04-02

PRIOR APPLICATION NUMBER: US/09/313, 932

PRIOR FILING DATE: 1999-01-18

PRIOR APPLICATION NUMBER: US 09/166, 186

PRIOR FILING DATE: 1998-10-05

NUMBER OF SEQ ID NOS: 503

SEQ ID NO 1

LENGTH: 3634

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

LOCATION: (796..981,1589..1634,1822..1869,2171..2592)

NAME/KEY: exon

LOCATION: (615)..(981)

NAME/KEY: intron

LOCATION: (982)..(1588)

NAME/KEY: exon

LOCATION: (1589)..(1634)

Qy 61 GAATCTGGAGAACGGAGCCATTGGTTCTGGCCAGAAATGCTGC 104
 Db 2841 GAATCTGGAGAACGGAGCCATTGGTTCTGGCCAGAAATGCTGC 2884

RESULT 12
 US-10-430-503-24
 / Sequence 24; Application US/10430503
 / Publication No. US2004005684A1
 / GENERAL INFORMATION:
 / APPLICANT: HUNG, MLEN-CHIE
 / APPLICANT: LAN, KENG-LI
 / APPLICANT: OU-YANG, FU
 / APPLICANT: LIU, JAW-CHING
 / APPLICANT: LAN, KENG-HSIN
 / TITLE OF INVENTION: TARGETING PROTEINS TO DELIVER THERAPEUTIC OR DIAGNOSTIC
 / FILE REFERENCE: UTSC:797US
 / CURRENT FILING DATE: 2003-05-06
 / PRIORITY APPLICATION NUMBER: US/10/430,503
 / PRIORITY FILING DATE: 2002-05-06
 / NUMBER OF SEQ ID NOS: 42
 / SOFTWARE: Patentin Ver. 2.1
 / SEQ ID NO: 24
 / LENGTH: 4930
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 US-10-430-503-24

Query Match 100.0%; Score 104; DB 12; Length 4810;
 Best Local Similarity 100.0%; Pred. No. 1.2e-0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAACTGGGCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 60
 Db 2781 GAATTCAACTGGGCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 2840

Qy 61 GAATCTGGAGAACGGAGCCATTGGTTCTGGCCAGAAATGCTGC 104
 Db 2841 GAATCTGGAGAACGGAGCCATTGGTTCTGGCCAGAAATGCTGC 2884

RESULT 13
 US-10-247-671-120
 / Sequence 120; Application US/10247671
 / Publication No. US20030194721A1
 / GENERAL INFORMATION:
 / APPLICANT: Mikita, Thomas
 / APPLICANT: Shiffman, Dov
 / APPLICANT: Porter, Gordon, J.
 / APPLICANT: Kaser, Matthew R.
 / TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS
 / FILE REFERENCE: PA-0050 US
 / CURRENT APPLICATION NUMBER: US/10/247,671
 / CURRENT FILING DATE: 2002-09-18
 / PRIORITY APPLICATION NUMBER: 60/323,784
 / PRIORITY FILING DATE: 2001-09-19
 / NUMBER OF SEQ ID NOS: 186
 / SOFTWARE: PERL Program
 / SEQ ID NO: 120
 / LENGTH: 1279
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / FEATURE: NAME/KEY: misc_feature
 / OTHER INFORMATION: Incyte ID No. US20030194721A1 561301CB1
 US-10-247-671-120

Query Match 89.4%; Score 93; DB 13; Length 1279;
 Best Local Similarity 99.0%; Pred. No. 9.5e-24; Mismatches 0; Indels 1; Gaps 1;

Qy 1 GAATTCAACTGGGCCCTCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 60
 Db 1077 GAATTCAACTGGGCCCTCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 1136

RESULT 14
 US-09-801-371A-7
 / Sequence 7; Application US/098001371A
 / Patent No. US2002015569A1
 / GENERAL INFORMATION:
 / APPLICANT: Kaempfer, Raymond
 / APPLICANT: Osman, Farhat
 / APPLICANT: Jarrous, Nayef
 / APPLICANT: Ben-Aouli, Yitzhak
 / TITLE OF INVENTION: REGULATION OF GENE EXPRESSION THROUGH MANIPULATION OF mRNA SPLICING AND ITS USES
 / FILE REFERENCE: A34084-PCT-USA-A 066031-0147
 / CURRENT APPLICATION NUMBER: US/09/801-371A
 / CURRENT FILING DATE: 2001-03-07
 / PRIORITY APPLICATION NUMBER: PCT WO 00/14255
 / PRIOR FILING DATE: 1999-09-06
 / NUMBER OF SEQ ID NOS: 12
 / SOFTWARE: FastSeq for Windows Version 4.0
 / SEQ ID NO: 7
 / LENGTH: 81
 / TYPE: RNA
 / ORGANISM: Homo sapiens
 US-09-801-371A-7

Query Match 74.0%; Score 77; DB 10; Length 81;
 Best Local Similarity 79.2%; Pred. No. 3.8e-18; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAACTGGGCCCTCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 60
 Db 5 GAATTCAACTGGGCCCTCCAGAACCTACTGGGGCTTACAGGTTGATCCCTGACATCTG 64

Qy 61 GAATCTGGAGAACCGGG 77
 Db 65 GAATCTGGAGAACCGGG 81

RESULT 15
 US-10-312-841-1
 / Sequence 1; Application US/10312841
 / Publication No. US20030166277A1
 / GENERAL INFORMATION:
 / APPLICANT: EPISIGNOMICS AG
 / TITLE OF INVENTION: Diagnose von bedeutenden genetischen Parametern innerhalb des MH
 / FILE REFERENCE: E01/1208/WO
 / CURRENT APPLICATION NUMBER: US/10/312,841
 / CURRENT FILING DATE: 2002-12-30
 / NUMBER OF SEQ ID NOS: 2
 / SEQ ID NO: 1
 / LENGTH: 3673778
 / TYPE: DNA
 / ORGANISM: Artificial Sequence
 / FEATURE: PEATURE;
 / OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 / FEATURE: NAME/KEY: unsure
 / LOCATION: (3294164)
 US-10-312-841-1

Query Match 57.5%; Score 59.8; DB 13; Length 3673778;
 Best Local Similarity 73.8%; Pred. No. 4.1e-11; Mismatches 27; Indels 0; Gaps 0;